

REFERENCES

- Abbaszadegan, M.; Stewart, P.; and LeChevallier, M. (1999) A Strategy for Detection of Viruses in Groundwater by PCR. *Appl. & Environ. Microbiol.* **65**, 2, 444.
- Abrams M., and Prescott C. (1999) The Endangered Species Act Enters the Urban Landscape: Can Portland Streams Sustain Salmon? *Proc. AWRA's 1999 Annual Water Resources Conference - Watershed Management to Protect Declining Species*, December 1999, Seattle, WA. American Water Resources Association, 95.
- Adamsson, A.; Persson, J.; and Lyngfelt S. (1999) Numerical Simulation and Large-Scale Physical Modelling of Flow in a Detention Basin. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1175.
- Ahn, H. (1999) Outlier Detection in Total Phosphorus Concentration Data from South Florida Rainfall. *J. Am. Water Resour. Assoc.*, **35**, 2, 301.
- Albanese, B. and Matlack, G. (1999) Utilization of Parking Lots in Hattiesburg, Mississippi, USA, and Impacts on Local Streams, *Environ. Manage.*, **24**, 2, 265.
- Alex, J.; Risholt, L.P.; and Schilling W. (1999) Integrated modeling system for simulation and optimization of wastewater systems. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1553.
- Alexander, M. (1999) Pump selection and pump station design for stormwater retention ponds. *Water-Eng. Manage.* **146**, 8, 13.
- Alfakih, E.; Barraud, S.; and Martinelli I. (1999) A Study of Stormwater Infiltration System Feasibility and Design. *Water Sci. Technol. (G.B.)*, **39**, 2, 225.
- Al-Homoud, A.S.; Prior, G.; and Awud, A. (1999) Modelling the effect of rainfall on instabilities of slopes along highways. *Environ. Geol.* **37**, 4, 317.
- Alin, S.R.; Cohen, A.S.; Bills, R.; Gashagaza, M.M.; Michel, E.; Tiercelin, J.J.; Martens, K.; Coveliers, P.; Mboko, S.K.; West, K.; Soreghan, M.; Kimbadi, S.; and Ntakimazi, G. (1999) Effects of landscape disturbance on animal communities in Lake Tanganyika, East Africa. *Conserv. Biol.* **13**, 5, 1017.
- Alkhaddar, R.M.; Higgins, P.R.; Phipps, D.A.; and Andoh, R.Y.G. (1999) The residence time distribution of prototype hydrodynamic vortex separator operating with a baseflow component. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The

Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 18.

Almeida, M.C.; Butler, D.; and Matos, J.S. (1999) Reaeration by sewer drops. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 738.

Al-Sheriadeh, M.S. and Al-Hamdan, A.Z. (1999) Erosion risk assessment and sediment yield production of the King Talal Watershed, *J. Environ. Geol.* **37**, 3, 234.

Alvarez, C.; Juanes, J.A.; Revilla, J.A.; Koev, K.; Roldan, A.; and Ivanov, V. (1999) Environmental Study of the Alternatives for the Sewer System of a Small Coastal Community in the Bay of Biscay. *Water Sci. Technol.* (G.B.), **39**, 8, 161.

Amano, H.; Matsunaga, T.; Nagao, S.; Hanzawa, Y.; Watanabe, M.; Ueno, T.; and Onuma, Y. (1999) the Transfer Capability of Long-lived Chernobyl Radionuclides from Surface Soil to River Water in Dissolved Forms. *Organic Geochemistry*, **30**, 6, 437.

Ambrose, R.F., and Meffert, D.J. (1999) Fish-Assemblage Dynamics in Malibu Lagoon, a Small, Hydrologically Altered Estuary in Southern California. *Wetlands*. **19**, 2, 327.

Andersen, C.T.; Foster, I.D.L.; and Pratt, C.J. (1999) the Role of Urban Surfaces (Permeable Pavements) in Regulating Drainage and Evaporation: Development of a Laboratory Simulation Experiment. *Hydrol. Processes*, **13**, 4, 597.

Anderson, M.J. (1999) The Integration of Hydraulic Modelling, Financial Reporting, Asset Management And Gis Into a Stormwater Drainage Management System. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1988.

Ando, Y.; Ozaki, K.; Imbe, M.; Okubo, N.; Okutani, M.; Nose, Y.; and Ohta, T. (1999) Hydrological Water Cycle in an Urbanized Basin and Measures to Improve the Water Cycle. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1935.

Andoh, R.Y.G., and Declerck, C. (1999) Source control and Distributed Storage – A Cost Effective Approach to Urban Drainage For The New Millennium? *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1997.

- Andoh, R.Y.G.; Smith, B.P.; and Saul, A.J. (1999) The Screen Efficiency of a Novel Self-cleaning CSO. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality. 2067.
- Andral, M.C.; Roger, S.; Montrejaud-Vignoles, M.; and Herremans, L. (1999) Particle Size Distribution and Hydrodynamic Characteristics of Solid Matter Carried by Runoff from Motorways, *Water Environ. Res.*, **71**, 4, 398.
- Anse, K., and Funayama, Y. (1999) Study for Efficient Storm water Drainage Design. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 834.
- Arabi, N.E.E. (1999) Problems of Groundwater Quality Related to the Urban Environment in Greater Cairo. *IAHS Publication (Int. Assoc. of Hydrol. Sci.)* 259: 29.
- Aramini, J.J.; Stephen, C.; Dubey, J.P.; Engelstoff, C.; Schwantje, H.; and Ribble, C.S. (1999) Potential Contamination of Drinking Water with *Toxoplasma gondii* Oocysts. *Epidemiology & Infection*. **122**, 2, 305.
- Arao, S., and Kusada, T. (1999) Effects of Pipe Bending Angle on Energy Losses at Two-Way Circular Drop Manholes. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 2163.
- Argue, J.R. (1999) An exploration of some “myths” about infiltration systems in source control technology. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality. 563.
- Argue, J.R., and Pezzaniti, D. (1999) Catchment "Greening" Using Stormwater in Adelaide, South Australia. *Water Sci. Technol. (G.B.)*, **39**, 2, 177.
- Armitage, N.P., and Roseboom, A. (1999) The Removal of Litter from Stormwater Conduits in the Developing World. *Water Sci. Technol. (G.B.)*. **39**, 9, 277.
- Arnaud, P., and Lavabre, J. (1999) Using a Stochastic Model for Generating Hourly Hyetographs to Study Extreme Rainfalls. *Hydrol. Sci. J.* **44**, 3, 433.
- Arnaud, P.; Lavabre, J.; and Masson, J.-M. (1999) Amelioration des Performances d'un Modele Stochastique de Generation de Hyetogrammes Horaires: Application Au Pourtour Meditteraneen Francais. *Revue Des Sciences De L'Eau/J. Water Sci.*

- Arnbjerg-Nielsen, K.; Johansen, N.B.; Schlutter, F.; Kaasgaard, M.; Rauch, W.; and Mikkelsen, P.S. (1999) Urban Pollution Runoff Modelling from Combined Sewer Overflows. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 357.
- Aronica, G. (1999) Kinematic Flood Routing in Link-Structure Drainage Networks. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 80.
- Arthur, A., and Swaffield, J.A. (1999) Numerical Modeling of Siphonic Rainwater Drainage Systems – The Role of Air in the System. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 778.
- Arthur, S.; Ashley, R.; Tait, S.; and Nalluri, C. (1999) Sediment Transport in Sewers - A Step Towards the Design of Sewers to Control Sediment Problems. *Proc. the Inst. Civ. Eng., Water Maritime and Energy* **136**, 1, 9.
- Artina, S.; Bardasi, G.; Borea, F.; Franco, C.; Maglionico, M.; Paoletti, A.; and Sanfilippo, U. (1999a) Water Quality Modelling In Ephemeral Streams Receiving Urban Overflows. The Pilot Study in Bologna. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1589.
- Artina, S.; Becciu, G.; Maglionico, M.; Paoletti, A.; and Sanfilippo, U. (1999b) Distributed Tanks for the Control of Pollution Due to Urban Sewer Overflows. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1116.
- ASCE (1999) *Proceedings of 26th Annual Conference of Water Resources Planning and Management*. June 6 – 9, 1999, Tempe, AZ. American Society of Civil Engineers, Reston, VA.
- Asada, K.; Kawaguchi, T.; and Zhang, S.P. (1999) Evaluation of the Impacts of Global Warming on Urban Drainage Systems. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 373.

- Ashby, J.A.; Sanz, J.I.; Knapp, E.B.; and Imbach, A. (1999) CIAT's Research on Hillside Environments in Central America. *Mountain Res. Dev.* **19**, 3, 241.
- Ashley R.M.; Hvitved-Jacobsen, T.; Vollertsen, J.; McIlhatton, T.; and Arthur S. (1999) Sewer Solids Erosion, Washout, and a New Paradigm to Control Solids Impacts on Receiving Waters. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 171.
- Ashley, J.T.F., and Baker, J.E. (1999) Hydrophobic Organic Contaminants in Surficial Sediments of Baltimore Harbor: Inventories and Sources. *Environmental Toxicology and Chemistry* **18**, 5, 838.
- Atasi, K.Z.; Fugita, G.; LePlatte, G.; Hufnagel, C.; Keeler, G.; Graney, J.; and Chen, T. (1999) Impact of Atmospheric Deposition on the Headworks of Wastewater Treatment Plant – A Case Study. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Attanasio, R., and Lampert, S. (1999) Case study: Sewer Construction Through a Sensitive Environmental Area Using Innovative Techniques. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Aucour, A.M.; Sheppard, S.M.F.; Guyomar, O.; and Wattlelet, J. (1999) Use of C-13 to Trace Origin And Cycling Of Inorganic Carbon In The Rhone River System. *Chemical Geology*. **159**, 1-4, 87.
- Averill, D.; Chessie, P.; Henry, D.; Marsalek, J.; and Seto P. (1999) High-rate Physical-Chemical Treatment of Combined Sewer Overflows. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 490.
- AWRA (1999) *Proceedings of 1999 Annual Water Resources Conference - Watershed Management to Protect Declining Species*, December 1999, Seattle, WA, ISBN #1-882132-48-3, American Water Resources Association, Middleburg, VA.
- Babaeian-Koopaei, K.; Butler, D.; and Davies, J. (1999) Modelling of Gross Solids Transport In Sewers. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 507.
- Backstrom, M.; Hellstrom, D.; and Viklander, M. (1999) Resources Utilization Analysis: A Comparison of Different Stormwater Transport Systems. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1327.

- Bailey, E.L. and Love, N.G. (1999) Treatment of a Wastewater Containing Nitrification-Inhibiting Oximes Using a Single-Sludge Nitrogen Removal Treatment System. *Water Environ. Res.* **71**, 1, 94.
- Bailey, H.C.; Elphick, J.R.; Potter, A.; and Zak, B. (1999) Zinc Toxicity in Stormwater Runoff from Saw mills in British Columbia. *Water Res. (G.B.)*, **33**, 11, 2721.
- Bailey, H.C.; Elphick, J.R.; Potter, A.; Chao, E.; Konasewich, D.; Zak J.B. (1999) Causes of Toxicity in Storm water Runoff from Sawmills, *Environ. Toxicol. Chem.*, **18**, 7, 1485.
- Bailey, W.; Tesfaye, A.; Dakita, J.; Bland, C.; Pickering, D.; Sadick, T.; Benjamin, A.; and McGrath, M. (1999) Carbon Alternatives for a Large W WTP Using A Post-Denitrification Process. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Ball, J.E. (1999) Modelling Contaminant Transport in Stormwater Runoff. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 349.
- Ballweber, J.A. (1999) A Critique of Watershed Management Efforts in the Lower Mississippi Alluvial Plain. *J. Am. Water Resour. Assoc.* **35**, 3, 643.
- Balmforth, D.J.; Simpson, F.J.; Blanksby, J.; Gadsden, R.J.; and Stewart D. (1999a) Determination of Intermittent Discharges – A Development of The Unit Hydrograph Methodology. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1287.
- Balmforth, D.J.; Blanksby, J.R.; Brown, C.; and Rogerson, C. (1999b) Development and Testing of a New Design Procedure for the Control of Aesthetic Pollutants at Combined Sewer Overflows. *Water Sci. Technol. (G.B.)*. **39**, 2, 53.
- Bamford, H.A.; Offenbergl, J.H.; Larsen, R.K.; Ko, F.C.; and Baker, J.E. (1999) Diffusive Exchange of Polycyclic Aromatic Hydrocarbons Across the Air-water Interface of the Patapsco River, an Urbanized Subestuary of the Chesapeake Bay. *Environ. Sci. Technol.*, **33**, 13, 2138.
- Barbosa, A.E., and Hvitved-Jacobsen, T. (1999) Highway Runoff and Potential for Removal of Heavy Metals in an Infiltration Pond in Portugal. *Sco. Total Environ.* **235**, 1-3, 151.
- Bardin, J.P.; Barraud, S.; and Chocat B. (1999) Errors and Uncertainties Involved in Measuring the Pollution Removal Performance of Detention Tanks Using Permanent Cross-Flow: The Example of the Venissieux Tank. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB

- Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 498.
- Barker, R.M. (1999) Developing Community Partnerships: The Avoca Valley Stream Restoration Model. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1714.
- Barner, W.L. (1999) Comparison of Stormwater Management in a Karst Terrane in Springfield, Missouri - Case Histories. *Eng..Geology*. **52**, 1-2,105.
- Barnett, A.G., and MacMurray, H.L. (1999) Hydraulic Balancing of Multiple Outflows from a Drainage Node. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1439.
- Barnett, Richard; Dalton, Mark; and McPherson, J. (1999) Conquering the Cold. *Civil Eng.* **69**, 9, 52.
- Barraud, S.; Gautier, A.; Bardin, J.P.; and Riou V. (1999a) The Impact of Intentional Stormwater Infiltration on Soil and Groundwater. *Water Sci. Technol.* (G.B.), **39**, 2, 185.
- Barraud, S.; Azzout, Y.; Cres, F.N.; and Chocat B. (1999b) Selection Aid of Alternative Techniques in Urban Storm Drainage - Proposition of an Expert System. *Water Sci. Technol.* **39**, 4, 241.
- Barrett, M.H.; Hiscock, K.M.; Pedley, S.; Lerner, D.N.; Tellam, J.H.; and French, M.J. (1999) Marker Species for Identifying Urban Groundwater Recharge Sources: A Review and Case Study in Nottingham, UK. *Water Res.* (G.B.), **33**, 14, 3083.
- Barros, A.P.; Knapton, D.; Wang, M.C.; and Kuo, C. (1999) Runoff in shallow soils under laboratory conditions. *J. Hydrol. Eng..* **4**, 1, 28.
- Barry, S.C.; Taylor, S.E.; and Birch, G.F. (1999) Heavy Metals in Urban Stormwater Canals Entering Port Jackson, Australia and Their Impact on the Estuarine Environment. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1825.
- Barth, R.; Gourley, C.; Hodgson, J.; and Siu, K.L. (1999) Edmonton's "Towards a Cleaner River" Campaign – Public Outreach and Stakeholder Involvement for Combined Sewer Overflow Control Planning. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM, New Orleans, LA.
- Barthes, B.; Albrecht, A.; Asseline, J.; De Noni, G.; and Roose, E. (1999) Relationship Between Soil Erodibility And Topsoil

- Aggregate Stability Or Carbon Content In A Cultivated Mediterranean Highland (Aveyron, France). *Commun. Soil Sci. Plant Analysis*. **30**, 13-14, 1929.
- Bartone, D.M., and Uchirin, C.G. (1999) Comparison of Pollutant Removal Efficiency for Two Residential Storm Water Basins. *J. Environ. Eng.-ASCE*. **125**, 7, 674.
- Bartoso va, A., and Novotny, V. (1999) Model of Spring Runoff Quantity and Quality for Urban Watersheds. *Water Sci. and Technol. (G.B.)*, **39**, 12, 249.
- Bartsch, N.; Hardy, T.; and Connor, P. (1999) Habitat and Flow Requirements – Instream Flow Methodology, Monitoring and Best Guess. *Proceedings: AWRA's 1999 Annual Water Resources Conference - Watershed Management to Protect Declining Species*, December 1999, Seattle, WA. American Water Resources Association, 119.
- Basnyat, P.; Teeter, L.D.; Flynn, K.M.; and Lockaby, B.G. (1999) Relationships Between Landscape Characteristics And Nonpoint Source Pollution Inputs to Coastal Estuaries. *Environmental Management*. **23**, 4, 539.
- Bateman, M.; Livingston, E.; and Cox, J. (1999) Overview of Urban Retrofit Opportunities in Florida. *Proc. National Conf. on Retrofit Opport. for Water Rec. Protect. in Urban Environ.*, Chicago, IL, EPA/625/C-99/001. U.S. EPA, Washington, D.C., 166.
- Baumler, R. and Zech, W. (1999) Effects of Forest Thinning on the Streamwater Chemistry of Two Forest Watersheds in the Bavarian Alps. *For. Ecol. Manage.* **116**, 1-3, 119.
- Bausmith, D.S., and Neufeld, R.D. (1999) Soil Biodegradation of Propylene Glycol Based Aircraft Deicing Fluids. *Water Environ. Res.* **71**, 4, 459.
- Bazzurro, N.; Tallea, A.; and Lasagna, C. (1999) Integrated Planning and Management of Urban Drainage, Waste Water Treatment and Receiving Water System: The Experience of AMGA. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 340.
- Beavis, S.G.; Zhang, L.; Jakeman, A.J.; and Gray, S.D. (1999) Erosional History of the Warrah Catchment in the Liverpool Plains, New South Wales. *Hydrol. Processes*. **13**, 5, 753.
- Beck, R.J.; Kraft, S.E.; and Burde, J.H. (1999) Is the Conversion of Land From Agricultural Production to a Bioreserve Boon or Bane For Economic Development? The Cache River Bioreserve as a case study. *J. Soil & Water Conserv.* **54**, 1, 394. 3
- Becker, A.; Guntner, A.; and Katzenmaier, D. (1999) Required Integrated Approach to Understand Runoff Generation and Flow Path Dynamics in Catchments. *IAHS Publication (Int. Assoc. of Hydrol. Sci.)* **258**, 3.

- Becker, M.; Pfeiffer, E.; and Prinz, R. (1999) Ecologically Oriented Storm Water Management and Its Hydrological Impact on the Emscher River System. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 11 50.
- Behera, P.K.; Papa, F.; and Adams, B.J. (1999) Optimization of Regional Storm -Water Management Systems. *J. Water Resour. Plann. Manage.* **125**, 2, 107
- Bell, C.F., and Grandstaff, E.E. (1999) Will Biological Nitrogen Removal Improve My Receiving Stream Water? Water Quality Monitoring as an Investigative Tool. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Bell, V.A. and Moore, R.J. (1999) An Elevation-Dependent Snowmelt Model for Upland Britain. *Hydrol. Processes*. **13**, 12-13
- Bellefleur, D.; Beck, C.; Burle, L.; and Penelle, C. (1999) Water Quality from Combined Sewers of the Small City Roeschwoog During Rainy Weather. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 12 39.
- Belnap, J.; Williams, J.; and Kaltenecker, J. (1999) Structure and Function of Biological Soil Crusts [Review]. *Proc. Pacific Northwest Forest and Rangeland Soil Organism Symposium* 161.
- Bendoricchio, G.; Calligaro, L.; and Carrer, G.M. (1999) Consequences of Diffuse Pollution on the Water Quality of Rivers in the Watershed of the Lagoon of Venice (Italy). *Water Sci. Technol.*(G.B.), **39**, 3, 113.
- Bennerstedt, K. (1999) Strategy for Handling Storm Water in Stockholm. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 578.
- Bennett, D.L.; Bloom, M.F.; and Nitiss, A. (1999) The Permitting, Implementation and Performance of a Structural Best Management Practice (BMP) for Wet Weather Toxics Control at an Industrial Facility. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Bennett, E.M.; Reed-Andersen, T.; Houser, J.N.; Gabriel, J.R.; and Carpenter, S.R. (1999) A Phosphorus Budget for the Lake Mendota Watershed. *Ecosystems*. **2**, 1, 69.
- Benoit, G.; Rozan, T.F.; Patton, P.C.; and Arnold, C.L. (1999) Trace Metals and Radionuclides Reveal Sediment Sources And Accumulation Rates in Jordan Cove, Connecticut. *Estuaries*. **22**, 1, 65.
- Benoit, G.; Wang, EX.; Nieder, W.C.; Levandowsky, M.; and Breslin, V.T. (1999) Sources and History of Heavy Metal

- Contamination and Sediment Deposition in Tivoli South Bay, Hudson River, New York. *Estuaries*. **22**, 2A, 167.
- Bent, G.C.; Goff, B.F.; Rightmire, K.G.; and Sidle, R.C. (1999) Runoff and Erosion Response of Simulated Waste Burial Covers in a Semi-Arid Environment. *J. Am. Water Resour. Assoc.* **35**, 2, 441.
- Berthelot, D.; Haggis, M.; Payne, R.; McClarty, D.; and Courtin, M. (1999) Application of Water Covers, Remote Monitoring and data Management Systems to Environmental Management at Uranium Tailings Sites in the Serpent River Watershed. *CIM Bulletin*. **92**, 1033, 70.
- Bertilsson, S.; Stepanauskas, R.; Cuadros-Hansson, R.; Graneli, W.; Wikner, J.; and Tranvik, L. (1999) Photochemically Induced Changes in Bioavailable Carbon and Nitrogen Pools in a Boreal Watershed. *Aquat. Microbial Ecol.* **19**, 1, 47.
- Betts, K.S. (1999) DNA Chip Technology Could Revolutionize Water Testing. *Environ. Sci. Technol.* **33**, 300A.
- Beyerlin, D. (1999) Why Standard Stormwater Mitigation Doesn't Work. *Proceedings: AWRA's 1999 Annual Water Resources Conference - Watershed Management to Protect Declining Species*, December 1999, Seattle, WA. *Am. Water Resour. Assoc.*, 477.
- Bichet, V.; Campy, M.; Buoncristiani, J.F.; Digiovanni, C.; Meybeck, M.; and Richard, H. (1999) Variations in Sediment Yield from the Upper Doubs River Carbonate Watershed (Jura, France) Since the Late-Glacial period. *Quaternary Research*. **51**, 3, 267.
- Bickford, G.; Toll, J.; Hansen, J.; Baker, E.; and Keessen, R. (1999) Aquatic Ecological and Human Health Risk Assessment of Chemicals in Wet Weather Discharges in the Sydney Region, New South Wales, Australia. *Mar. Pollut. Bull.* **39**, 1-2, 335.
- Birch, G., and Taylor, S. (1999) Source of Heavy Metals in Sediments of the Port Jackson Estuary, Australia. *Sci. Total Environ.* **227**, 2-3, 123.
- Birch, G.F.; Scollen, A.; Snowdon, R.; and Suh J. (1999) Sources of Heavy Metals in Stormwater Draining into Port Jackson, Sydney, Australia. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 2202.
- Biron, P.M.; Roy, A.G.; Courschesne, F.; Hendershot, W.H.; Cote, B.; and Fyles, J. (1999) The Effects of Antecedent Moisture Conditions on the Relationship of Hydrology to Hydrochemistry in a Small Forested Watershed. *Hydrol. Processes*. **13**, 11, 1541.
- Bishop, W.A.; Collins, N.I.; Callaghan, D.P.; and Clark, S.Q. (1999) Detailed Two-Dimensional Flood Modeling of Urban Developments. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association

for Hydraulic Research, and The International Association on Water Quality, 1466.

- Blanpain, O.; Merchez, S.; Lecoutre, C.; and Boussemart, F. (1999) Comparison of Interpolation Methods to Approximate the Profile of Urban Drainage Networks. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1184.
- Blumberg, A.F.; Khan, L.A.; and St. John, J.P. (1999) Three-dimensional Hydrodynamic Model of New York Harbor Region. *J. Hydraul. Eng.* **125**, 8, 799.
- Boar, R.R.; Harper, D.M.; and Adams, C.S. (1999) Biomass Allocation in *Cyperus Papyrus* in a Tropical Wetland, Lake Naivasha, Kenya. *Biotropica*. **31**, 3, 411.
- Bobba, A.G.; Jeffries, D.S.; and Singh, V.P. (1999) Sensitivity of Hydrological Variables in the Northeast Pond River Watershed, Newfoundland, Canada, Due to Atmospheric Change. *Water Resour. Manage.* **13**, 3, 171.
- Boix-Fayos, C.; Calvo-Cases, A.; Imeson, A.C.; Soriano-Soto, M.D.; and Tiemessen, I.R. (1999) Spatial and Short-Term Temporal Variations in Runoff, Soil Aggregation and Other Soil Properties Along a Mediterranean Climatological Gradient. *Catena*. **34**, 3-4, 387.
- Bond P. (1999) Basic Infrastructure for Socio-economic Development, Environmental Protection and Geographical Desegregation: South Africa's Unmet Challenge. *Geoforum*, **30**, 1, 43.
- Bond, P.C.; Pratt, C.J.; and Newman, A.P. (1999) A Review of Stormwater Quantity and Quality Performance of Permeable Pavements in the UK. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality. 248.
- Bonniwell, E.C.; Matisoff, G.; and Whiting, P.J. (1999) Determining the Times and Distances of Particle Transit in a Mountain Stream Using Fallout Radionuclides. *Geomorphology*. **27**, 1-2, 75.
- Bontus, G.; Siu, K.L.; Hodgson, J.; LeBlanc, M.; and Buie, B. (1999) Edmonton's Proactive Long-Term Combined Sewer Overflow Control Plan. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Bonzongo, J-C.; Butler, K.F.; Rowls, E.A.; and Lyons, W.B. (1999) Impacts of Land Use and Physicochemical Settings on Methyl Mercury Levels in the Mobile-Alabama River System (MARS). *Proceedings: AWRA's 1999 Annual Water Resources Conference - Watershed Management to Protect Declining Species*, December 1999, Seattle, WA. American Water Resources Association, 525.
- Booth, D.B., and Leavitt, J. (1999) Field Evaluation of Permeable Pavement Systems for Improved Stormwater Management. *J. AM. Plann. Assoc.* **65**, 3, 314.

- Born, W. (1999) Enhanced Storm Water Treatment by a Constructed Wetland Within a Retention Basin. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality. 1073.
- Borst, M., and O'Shea, M. (1999) EPA's Watershed Management and Storm water Modeling Research Program. *ASCE 26th Annu. Conf Water Resour. Plann. Manage. 1999 Annu. Conf Environ. Eng.*, Tempe, AZ.
- Boubakari, M., and Morgan, R.P.C. (1999) Contour Grass Strips for Soil Erosion Control on Steep Lands: A Laboratory Evaluation. *Soil Use Manage.* **15**, 1, 21.
- Bouraoui, F.; Vachaud, G.; Li, L.Z.X.; Le Treut, H.; and Chen, T. (1999) Evaluation of the Impact of Climate Changes on Water Storage and Groundwater Recharge at the Watershed Scale. *Climate Dynamics*. **15**, 2, 153.
- Bowman, R.A.; Vigil, M.F.; Nielsen, D.C.; and Anderson, R.L. (1999) Soil Organic Matter Changes in Intensively Cropped Dryland Systems. *Soil Sci. Soc. Am. J.* **63**, 1, 186.
- Braden, J.B., and van Ierland, E.C. (1999) Balancing: The Economic Approach to Sustainable Water Management [Review]. *Water Sci. Technol.* (G.B.), **39**, 5, 17.
- Bragg, D.C., and Kershner, J.L. (1999) Coarse Woody Debris in Riparian Zones - Opportunity for Interdisciplinary Interaction. *J. Of For.* **97**, 4, 30.
- Bramhall, M.A., and Saul, A.J. (1999) Hydraulic Performance of Syphonic Rainwater Outlets. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality. 786.
- Brashear, R.W.; Promise, J.; and Roesner, L.A. (1999) Utilizing the World Wide Web to Organize and Convey Urban Storm Water Management Principles to Diverse Audiences. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 210.
- Braud I. Fernandez P. Bouraoui F. (1999) Study of the Rainfall-Runoff Process in the Andes Region Using a Continuous Distributed Model. *J. Hydrol. (Neth.)* **216**, 3-4, 155.
- Braune, M.J., and Wood, A. (1999) Best Management Practices Applied to Urban Run off Quantify and Quality Control. *Water Sci. Technol.* (G.B.), **39**, 12, 117.
- Brenner, A.J.; Brush, L.A.; Martin, J.S.; Olsson, K.Y.; Rentschler, P.L.; and Wolf, J.K. (1999) The Huron River Watershed

- Council: Grassroots Organization for Holistic Watershed Management. *Water Sci. Technol.* (G.B.), **39**, 12, 331.
- Brenner, A.J.; Richards, P.L.; Barlage, M.; and Sousounis, P. (1999) Impact Of Land Use Changes 1820-2020 on Water Quality and Quantity in Southeast Michigan. *IAHS Publication (Int. Assoc. of Hydrol. Sci.)*. **257**, 229.
- Brenner, F.J.; Brenner, E.K.; and Schwartz, T.E. (1999) Use of Plaque Assay to Detect Enteric Viruses in a Rural Watershed. *J. Environ. Qual.*. **28**, 3, 845.
- Brent, R.N., and Herricks, E.E. (1999) A Method for the Toxicity Assessment of Wet Weather Events. *Water Res.* (G.B.), **33**, 10, 2255.
- Brezonik, P.L.; Easter, K.W.; Hatch, L.; Mulla, D.; and Perry, J. (1999) Management of Diffuse Pollution in Agricultural Watersheds: Lessons from the Minnesota River basin. *Water Sci. Technol.* (G.B.), **39**, 12, 323.
- Briat, P.; Jury, M.; Lucas, E.; Urbain, V.; Jacopin, C.; and Bourgoigne, P. (1999) Stormwater Management in Bordeaux - France: Hydraulic and Pollution Control. *Comprehensive Stormwater & Aquatic Ecosystem Manage. Conf. Papers First South Pacific Conf.*, Auckland, New Zealand.
- Brion, G.M., and Lingireddy, S. (1999) Neural Network Approach To Identifying Non-Point Sources Of Microbial Contamination. *Water Res.* (G.B.) **33**, 14, 3099.
- Brito-Castillo, L.; Leyva-Contreras, A.; and Shelutko, V.A. (1999) Determination of Decadal Climatic Cycles in Runoff Fluctuation of a Hydrologic Unit. *Atmosfera*. **12**, 1, 27.
- Brombach, H.; Steinriede, D.; Weib, G.; and Wohrle, C. (1999) Measured Overflow Activity of Combined Sewer Overflow (CSO) Tanks. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 2059.
- Brooks, P.D.; McKnight, D.M.; and Bencala, K.E. (1999) The Relationship Between Soil Heterotrophic Activity, Soil Dissolved Organic Carbon (DOC) Leachate, and Catchment-Scale DOC Export In Headwater Catchments. *Water Resour. Res.*. **35**, 6, 1895.
- Brough, A. (1999) Stormwater Treatment and Disposal Using Infiltration Basins in Christchurch, New Zealand. *Comprehensive Stormwater & Aquatic Ecosystem Manage. Conf. Papers First South Pacific Conf.*, Auckland, New Zealand.
- Brown, M.R.; Almond, B.; and Wiese, R.N. (1999) Rehabilitation of Centennial Park ponds, Sydney – Sustainable Urban Drainage. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 2090.

- Brown, R.R., and Ball, J.E. (1999) A Review of Storm water Management Planning as Implemented in New South Wales. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 324.
- Brown, S.; Schreier, H.; Shah, P.B.; and Lavkulich, L.M. (1999) Modelling of Soil Nutrient Budgets: An Assessment of Agricultural Sustainability in Nepal. *Soil Use Manage.* **15**, 2, 101.
- Brown, V.A.; McDonnell, J.J.; Burns, D.A.; and Kendall, C. (1999) Role of Event Water, a Rapid Shallow Flow Component, and Catchment Size in Summer Stormflow. *J. Hydrol. (Neth.)*, **217**, 3, 171.
- Brunet, R.C., and Astin, K.B. (1999) Spatio-temporal Variation in Some Physical and Chemical Parameters Over a 25-Year Period in the Catchment of the River Adour. *J. Hydrol. (Neth.)*, **220**, 3-4, 209.
- Bryce, S.A.; Larsen, D.P.; Hughes, R.M.; and Kaufmann, P.R. (1999) Assessing Relative Risks to Aquatic Ecosystems: A Mid-Appalachian Case Study. *J. Am. Water Resour. Assoc.* **35**, 1, 23.
- Buckles, J.; Duttlinger, D.; Webster, J.; and Caidedo, E. (1999) Analysis of Contaminated Surface Water and Rising Groundwater Conducted in Ecuador. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Burgess, E.H.; Ray, C.; and Farnham, R. (1999) Operational Experience With CSO Control Facilities in Indianapolis, Indiana. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Burian, S.J.; Nix, S.J.; Durrans, S.R.; Pitt, R.E.; Fan, C-Y.; and Field, R. (1999) Historical Development of Wet-Weather Flow Management. *J. Water Resour. Plann. Manage.* **125**, 1, 3.
- Burkart, M.R.; Simpkins, W.W.; Squillace, P.J.; and Helmke, M. (1999) Tributary Stream Infiltration as a Source of Herbicides in an Alluvial Aquifer. *J. Environ. Qual.*, **28**, 69.
- Burnam, J.; Baer, R.; Solbrig, R.; and Hoggatt, J. (1999) “You’re outta there!” (Exiling Effluent from the Lake Tahoe Basin). *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Burrows, R.; Ali, K.H.M.; and Ockleston, G. (1999) Sewage Discharge Estimation from a Flow-Stick Monitoring Device. *Proc. the Inst. Civ. Eng., Water Maritime and Energy*. **136**, 3, 133.
- Butcher, J.B. (1999) Forecasting Future Land Use for Watershed Assessment. *J. Am. Water Resour. Assoc.* **35**, 3, 555.
- Butcher, J.B. (1999) Practical Decision Methods for Watershed Management. *Human & Ecol. Risk Assmt.* **5**, 2, 263.
- Butler, D., and Memon, F.A. (1999) Dynamic Modeling of Roadside Gully Pots During Wet Weather. *Water Res. (G.B.)*. **33**, 15, 3364.

- Butt, A.Z.; Ayers, M.; Swanson, S.; and Tueller, P.T. (1999) Riparian Corridor Assessment in the Lake Tahoe Basin: Combining Vegetation and Stream Morphology Classifications into a GIS Database. *Proc. AWRA's 1999 Annual Water Resources Conference - Watershed Management to Protect Declining Species*, December 1999, Seattle, WA. American Water Resources Association, 373.
- Buttle, J.M., and Labid ia, C.F. (1999) De icing Salt Accumulation and Loss in Highway Snowbanks. *J. Environ. Qual.*, **28**, 155.
- Cabot, P.J.; Raso Quintana, J.; Sindreau Fernandez, J.; Malgrat Bregolat, P.; Marti Marques, J.; and Gutierrez Fernandez, L. (1999) Detention tank Sizing Using a Long-Term Simulation Model. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 10.
- Cadet, P., and Albergel, J. (1999) Passive Transport of Phytoparasitic Nematodes by Runoff Water in the Sudano-Sahelian Climatic Area. *J. Hydrol. (Neth.)* . **214**, 1-4, 91.
- Cagiao, J.; Diaz-Fierros, T.; Vazquez, F.; Suarez, J.; and Puertas, J. (1999) A Numerical and Experimental Model of a Separative Catchment in North of Spain. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 964.
- Calamita, F.P. (1999) Wet Weather Uses and Water Quality Standards: Will Congress or EPA Step up to the Plate? *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Calomino, F.; Frega, G.; Piro, P.; and Veraldi, M.G. (1999) Hydraulics of Drops in Supercritical Flow. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality. 2139.
- Calomino, F.; Galasso, L.; Mordente, F.; Piro, P.; and Sole, A. (1999) Geographic Information Systems Applied to Urban Storm Drainage Analysis. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1680.
- Cambardella, C.A.; Moorman, T.B.; Jaynes, D.B.; Hatfield, J.L.; Parkin, T.B.; Simpkins, W.W.; and Karlen, D.L. (1999) Water Quality in Walnut Creek Watershed: Nitrate-nitrogen in Soils, Subsurface Drainage Water, and Shallow Ground water. *J. Environ. Qual.*. **28**, 1, 25.
- Cameron, D.S.; Beven, K.J.; Tawn, J.; Blazkova, S.; and Naden, P. (1999) Flood Frequency Estimation by Continuous

- Simulation for a Gauged Upland Catchment (with uncertainty). *J. Hydrol. (Neth.)* . **219**, 3-4, 169.
- Campolo, M.; Andreussi, P.; and Soldati, A. (1999) River Flood Forecasting with a Neural Network Model. *Water Resour. Res.* . **35**, 4, 1191.
- Cane, G., and Clark, I.D. (1999) Tracing Ground Water Recharge in an Agricultural Watershed With Isotopes. *Ground Water*. **37**, 1, 133.
- Caraco, N.F., and Cole, J.J. (1999) Human Impact on Nitrate Export: An Analysis Using Major World Rivers. *Ambio* . **28**, 2, 167.
- Cardoso, M.A.; Coelho, S.T.; Matos, J.S.; and Matos, R.S. (1999) A New Approach to the Diagnosis and Rehabilitation of Sewerage Systems Through the Development of Performance Indicators. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality. 610.
- Carey, S.K., and Woo, M-K. (1999) Hydrology Of Two Slopes in Subarctic Yukon, Canada. *Hydrol. Processes*. **13**, 16, 2549.
- Carpenter, T.M.; Sperflage, J.A.; Georgakakos, K.P.; Sweeney, T.; and Fread, D.L. (1999) National Threshold Runoff Estimation Utilizing GIS in Support of Operational Flash Flood Warning Systems. *J. Hydrol. (Neth.)* . **224**, 1, 21.
- Carr, R.S.; Bacon, P.; and Smith, G.P. (1999a) A Time Series Modeling Approach for Assessment of Environmental Conditions. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1625.
- Carr, R.S.; Smith, G.P.; Lincoln-Smith, M.P.; and Jack, C. (1999b) Linking of Hydraulic and Hydrologic Models with Ecologic Assessments. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 240.
- Caruso, B.S. (1999) Attributes and Uncertainty of Dissolved Zinc Data from a Mined Catchment. *Hydrol. Processes*. **13**, 2, 169.
- Caruso, B.S., and Loftis, J.C. (1999) Screening Assessment of Dissolved Zinc from Inactive Mines in a Mountain Watershed. *Environ. Monit. Assessmt.* . **56**, 2, 147.
- Carvalho, C.E.V.; Ovalle, A.R.C.; Rezende, C.E.; Molisani, M.M.; Salomao, M.S.M.B.; and Lacerda, L.D. (1999) Seasonal Variation of Particulate Heavy Metals in the Lower Paraiba do Sul River, R.J., Brazil. *Environ. Geol.* . **37**, 4, 297.
- Cassar, A., and Verworn, H.R. (1999) Modifications of Rainfall Runoff and Decision Finding Models for On-line Simulation in

Real Time Control. *Water Science & Technology*, **39**, 9, 201.

- Castro, N.M.D.R.; Auzet, A-V.; Chevallier, P.; and Leprun, J-C. (1999) Land Use Change Effects on Runoff and Erosion from Plot to Catchment Scale on the Basaltic Plateau of Southern Brazil. *Hydrol. Processes*. **13**, 11, 1621.
- Cave, K.A.; Bryson, D.S.; and Bails, J.D. (1999) Will the New Federal Phase 2 Storm Water Program Work? Test Case With Michigan's Voluntary General Storm Water Permit. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Cerda, A. (1999) Parent Material and Vegetation Affect Soil Erosion in Eastern Spain. *Soil Sci. Soc. Am. J.*. **63**, 2, 362.
- Cerda, A. (1999) Seasonal and Spatial Variations in Infiltration Rates in Badland Surfaces Under Mediterranean Climatic Conditions. *Water Resour. Res.*. **35**, 1, 319.
- Cey, E.E.; Rudolph, D.L.; Aravena, R.; and Parkin, G. (1999) Role of the Riparian Zone in Controlling the Distribution and Fate of Agricultural Nitrogen Near A Small Stream In Southern Ontario. *J. Contam. Hydrol.*. **37**, 1-2, 45.
- Chambers, J.C.; Blank, R.R.; Zamudio, D.C.; and Tausch, R.J. (1999) Central Nevada Riparian Areas: Physical and Chemical Properties of Meadow Soils. *J. Range Manage.*. **52**, 1, 92.
- Chandler, D.G., and Bisogni, J.J. Jr. (1999) Use of Alkalinity as a Conservative Tracer in a Study of Near-Surface Hydrologic Change in Tropical Karst. *J. Hydrol.* **216**, 3, 172.
- Chang, F.J., and Hwang, Y.Y. (1999) A Self-Organization Algorithm for Real-Time Flood Forecast. *Hydrol. Processes*. **13**, 2, 123.
- Chang, N.B.; Yeh, S.C.; and Wu, G.C. (1999) Stability Analysis of Grey Compromise Programming and Its Application To Watershed Land-Use Planning. *Int. J. Syst. Sci.* **30**, 6, 571.
- Chaubey, I.; Haan, C.T.; Grunwald, S.; and Salisbury, J.M. (1999) Uncertainty in the Model Parameters Due to Spatial Variability of Rainfall. *J. Hydrol. (Neth.)*, **220**, 1-2, 48.
- Chebbo, G.; Gromaire, M-C.; Garnaud, S.; and Gonzalez, A. (1999) The Experimental Urban Catchment "Le Marais" in Paris. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1520.
- Chen, C.W.; Herr, J.; Ziemelis, L.; Goldstein, R.A.; and Olmsted, L. (1999a) Decision Support System for Total Maximum Daily Loads, *J. Environ. Eng.*, **125**, 7, 653.
- Chen, H., and Beschta, R. (1999) Dynamic Hydrologic Simulation of the Bear Brook Watershed in Maine. *Environ. Monit. Assessmt.*, **55**, 53.

- Chen, S.; Wang, G.T.; and Xue, S.K. (1999b) Modeling BOD Removal in Constructed Wetlands with Mixing Cell Method. *J. Environ. Eng.*, **125**, 1, 64.
- Chen, S.H., and Wu, J.T. (1999) Paleolimnological Environment Indicated by the Diatom and Pollen Assemblages in an Alpine Lake in Taiwan. *J. of Paleolimnology*. **22**, 2, 149.
- Chiew, F.H.S., and McMahon, T.A. (1999) Modeling Runoff and Diffuse Pollution Loads in Urban Areas. *Water Sci. and Tech.*, **39**, 12, 241.
- Chiu, C-Y.; Lai, S.Y.; Lin, Y-M.; and Chiang, H-C. (1999) Distribution of the Radionuclide ^{137}Cs in the Soils of a Wet Mountainous Forest in Taiwan. *Applied Radiation and Isotopes*. **50**, 6, 1097.
- Choi, K.S., and Blood, E. (1999) Modeling Developed Coastal Watershed with the Agricultural Non-Point Source Model. *J. Am. Water Resour. Assoc.*, **35**, 2, 233.
- Choi, K-S., and Ball JE. (1999) Estimation of Control Facilities for Urban Runoff Modelling by Using a Hydroinformatic System. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1776.
- Christ, M.J.; Driscoll, C.T.; and Likens, G.E. (1999) Watershed- and Plot-Scale Tests of the Mobile Anion Concept. *Biogeochemistry*. **47**, 3, 335.
- Chung, S.W.; Gassman, P.W.; Kramer, L.A.; Williams, J.R.; and Gu, R. (1999) Validation of Epic for Two Watersheds in Southwest Iowa, *J. Environ. Qual.*, **28**, 3, 971.
- Church, M.R. (1999) The Bear Brook Watershed Manipulation Project Watershed Science in a Policy Perspective. *Environ. Monit. Assessmt.*, **55**, 1, 1.
- Church, M.R., and Van Sickle, J. (1999) Potential Relative Future Effects of Sulfur and Nitrogen Deposition on Lake Chemistry in the Adirondack Mountains, United States. *Water Resour. Res.*, **35**, 7, 2199.
- Cianfrani, C.; Hession, W.C.; McBride, M.; and Pizzuto, J.E. (1999) Urban Streams in Fairmount Park, Philadelphia, PA: Assessment and Restoration. *Proceedings: AWWA's 1999 Annual Water Resources Conference - Watershed Management to Protect Declining Species*, December 1999, Seattle, WA. *Am. Water Resour. Assoc.*, 393.
- Cigana, J.; Couture, M.; Meunier, C.; and Comeau, Y. (1999) Determination of the Vertical Velocity Distribution of Floatables in CSOs. *Water Sci. Technol. (G.B.)*. **39**, 2, 69.
- Civil Engineering (1999) Decatur Builds Supplemental Sewer. *Civil Eng.*, **69**, 5, 70.
- Civil Engineering (1999) Indianapolis Faces \$2-Billion Sewer Bill. *Civil Eng.*, **69**, 9, 12.

- Civil Engineering (1999) Santa Monica Bay to Receive Treated Storm Water. *Civil Eng.* **69**, 8, 28.
- Civil Engineering (1999) Storm-water Treatment Technologies Evaluated for Urban Use. *Civil Eng.* **69**, 11, 30.
- Clancy, J.L., and Hansen, J. (1999) Uses of Protozoan Monitoring Data. *J. Am. Water Works Assoc.* **91**, 5, 51.
- Clar, M.; Outen, D.; and Gemmill, E. (1999) Integrated Stream Stability Assessment and Water Quality Modeling for A Watershed Study, *ASCE 26th Annu. Conf. Water Resour. Plann. Manage. 1999 Annu. Conf. Environ. Eng.*, Tempe, AZ.
- Clark, D.P.; Copp, R.S.; and Nissen, J.A. (1999) Achieving 10 ppb, the State-Of-The-Art for Phosphorus Removal. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Clary, J.; O'Brien, J.; and Urbonas, B. (1999) Development of National Storm water BMP Database. *ASCE 26th Annu. Conf. Water Resour. Plann. Manage. 1999 Annu. Conf. Environ. Eng.*, Tempe, AZ.
- Clemens, F., and von der Heide, W. (1999) Effects of Geometrical Data Errors in Hydrodynamic Calculations in Urban Drainage. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 955.
- Clifforde, I.T.; Tomicic, B.; and Mark, O. (1999) Integrated Wastewater Management – a European Vision for the Future. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1041.
- Cloak, D., and Bicknell, J. (1999) Assessing the Effectiveness of a Stormwater Pollution Prevention Program in an Industrial Catchment, *ASCE 26th Annu. Conf. Water Resour. Plann. Manage. 1999 Annu. Conf. Environ. Eng.*, Tempe, AZ.
- Cobourn, J. (1999) Integrated watershed management on the Truckee River in Nevada. *J. Am. Water Resour. Assoc.* **35**, 3, 623.
- Cockshott, A.M., and McManus, R. (1999) Busby's Bore Project - recycled effluent for irrigation of Sydney's city parks. *Water Supply* 173: 527.
- Coffman, L.S.; Goo, R.; and Frederick, R. (1999) Low-Impact Development an Innovative Alternative Approach to Stormwater Management. *ASCE 26th Annu. Conf. Water Resour. Plann. Manage. 1999 Annu. Conf. Environ. Eng.*, Tempe, AZ.
- Colford, J.M.; Tager, I.; Byers, L.F.; Ricci, P.; Hubbard, A.; and Horner R. (1999) Methods for Assessing the Public Health Impact of Outflows from Combined Sewer Systems. *J. Air Waste Manage. Assoc.* **49**, 4, 454.
- Collins, N.; Callaghan, D.; and McCowan, A. (1999) Zero Flooding Impact Assessment – the Need for Full Two-Dimensional Analysis. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney,

- Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1448.
- Comings, K.J. (1999) 'Zero-Impact' Urban Development: Monitoring a Case Study. *Proceedings: AWRA's 1999 Annual Water Resources Conference - Watershed Management to Protect Declining Species*, December 1999, Seattle, WA. American Water Resources Association, 461.
- Coombes, P.J.; Kuczera, G.; Argue, J.R.; Cosgrove, F.; Arthur, D.; Bridgeman, H.A.; and Enright, K. (1999) Design, Monitoring and Performance of the Water Sensitive Urban Redevelopment at Figtree Place in Newcastle. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1319.
- Correll, D.L.; Jordan, T.E.; and Weller, D.E. (1999) Effects of Interannual Variation of Precipitation on Stream Discharge from Rhode River Watersheds. *J. Am. Water Resour. Assoc.*, **35**, 1, 73.
- Correll, D.L.; Jordan, T.E.; and Weller, D.E. (1999) Effects of Precipitation and Air Temperature on Nitrogen Discharges from Rhode River Watersheds. *Water, Air, Soil Pollut.* **115**, 1-4, 547.
- Correll, D.L.; Jordan, T.E.; and Weller, D.E. (1999) Effects of Precipitation and Air Temperature on Phosphorus Fluxes from Rhode River watersheds. *J. Environ. Qual.* **28**, 1, 144.
- Correll, D.L.; Jordan, T.E.; and Weller, D.E. (1999) Transport of Nitrogen and Phosphorus from Rhode River Watersheds During Storm Events. *Water Resour. Res.* **35**, 8, 2513.
- Corsi, R.; Greb, S.R.; Bannerman, R.T.; and Pitt, R.E. (1999) *Evaluation of the Multi-Chambered Treatment Train, a Retrofit Water-Quality Management Device*. U.S. Geological Survey Open-File Report 99-270. Middleton, WI.
- Cortese, C.F. (1999) The Social Context of Western Water Development. *J. Am. Water Resour. Assoc.* **35**, 3, 567.
- Corwin, D.L.; Goldberg, S.; and David, A. (1999) Evaluation of a Functional Model for Simulating Boron Transport in Soil. *Soil Science*. **164**, 10, 697.
- Cosh, M.H., and Brutsaert, W. (1999) Aspects of Soil Moisture Variability in the Washita '92 Study Region. *J. Geophys. Res. Atmos.* **104**, D16, 19751.
- Coulibaly, P.; Anctil, F.; and Bobee, B. (1999) Hydrological Forecasting with Artificial Neural Networks: The State-Of-The-Art. *Canadian J. Civil Eng.* **26**, 3, 293.
- Crabill, C.; Donald, R.; Snelling, J.; Foust, R.; and Southam, G. (1999) The Impact of Sediment Fecal Coliform Reservoirs on Seasonal Water Quality in Oak Creek, Arizona. *Water Res. (G.B.)*, **33**, 9, 2163.

- Crapper, P.F.; Beavis, S.G.; and Zhang, L. (1999) Relationship Between Climate and Streamflow in the Namoi Basin. *Environ. International*. **25**, 6, 827.
- Crayosky, T.W.; DeWalle, D.R.; Seybert, T.A.; and Johnson, T.E. (1999) Channel Precipitation Dynamics in a Forested Pennsylvania Headwater Catchment (USA). *Hydrol. Processes*, **13**, 9, 1303.
- Crifasi, R.R. (1999) South Boulder Creek near Boulder, Colorado: a Description of Boulder's Instream Flow and Riparian Zone Management Program. *Proceedings: AWRA's 1999 Annual Water Resources Conference - Watershed Management to Protect Declining Species*, December 1999, Seattle, WA. American Water Resources Association, 381.
- Croke, J.; Hairsine, P.; and Fogarty, P. (1999) Runoff Generation and Re-Distribution in Logged Eucalyptus Forests, Southern Australia. *J. Hydrol.* **216**, 1–2, 56.
- Crosbie, B., and Chow-Fraser, P. (1999) Percentage Land Use in the Watershed Determines the Water and Sediment Quality of 22 Marshes in the Great Lakes Basin. *Canadian J. Fish. Aquat. Sci.* **56**, 10, 1781.
- Crunkilton, R., and Kron, D. (1999) Assessing the Effectiveness of a Pilot-Scale Wet Detention Basin in Reducing Toxicity of Urban Runoff. *Comprehensive Stormwater & Aquatic Ecosystem Manage. Conf. Papers First South Pacific Conf.*, Auckland, New Zealand.
- Curtis, S., and Hastenrath, S. (1999) Trends of upper-air circulation and water vapour over equatorial South America and adjacent oceans. *Int. J. Climatology*. **19**, 8, 863.
- Cutler, A., and Eastman, R. (1999) Collaborative, Environmentally Sensitive Design Examples of Public and Private Sector Co-Operation Achieve a Range of Values in Development. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 58.
- Cutler, A., and Simpson, H. (1999) The Challenges of Creating Naturalized Waterway Environments in Confined Urban Drainage Channels: Sustainably Managing Christchurch's Waterways and Wetlands. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 650.
- da Silva, A.B.; Brites, R.S.; and de Sousa, A.R. (1999) Characterization of the physical environment in the Quatro Bocas watershed in Angelim, PE, and its quantification by a Geographic Information System. *Pesquisa Agropecuaria Brasileira*. **34**, 1, 109.
- Dabney, S.M.; Liu, Z.; Lane, M.; Douglas, J.; Zhu, J.; and Flanagan, D.C. (1999) Landscape Benching from Tillage Erosion

- Between Grass Hedges. *Soil Tillage Resear.* **51**, 3-4, 219.
- Dail, D.B., and Fitzgerald, J.W.S. (1999) Cycling in Soil and Stream Sediment: Influence of Season and *In Situ* Concentrations of Carbon, Nitrogen and Sulfur. *Soil Biology & Biochemistry.* **31**, 10, 1395.
- Daligault, A.; Meaudre, D.; Amault, D.; Duc, V.; Bardin, N.; Aires, N.; Biau, D.; Schmid, J.; Clement, P.; and Viau, J.Y. (1999) Stormwater and Lamella Settlers: Efficiency and reality. *Water Sci. Technol.* (G.B.), **39**, 2, 93.
- Danehy, R.J.; Ringler, N.H.; and Ruby, R.J. (1999) Hydraulic and Geomorphic Influence on Macroinvertebrate Distribution in the Head waters of a Small Watershed. *J. Freshwater Ecol.* **14**, 1, 79.
- David, L.M., and Matos, M.R. (1999) Control of CSO and SWO Emissions: Establishment of a Methodology for Portugal. *Proc. the Eighth International Conference on Urban Storm Drainage.* August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1124.
- David, M.; Vance, G.; and Kahl, J. (1999) Chemistry of Dissolved Organic Carbon at Bear Brook Watershed, Maine: Stream Water Response to $(\text{NH}_4)_2\text{SO}_4$ Additions. *Environ. Mon. Assessmt.*, **55**, 149.
- Davies, T.D.; Tranter, M.; Wigington, P.J.; Eshleman, K.N.; Peters, N.E.; Van Sickle, J.; DeWalle, D.R.; and Murdoch, P.S. (1999) Prediction of Episodic Acidification in North-eastern USA: An Empirical Mechanistic Approach. *Hydrol. Processes.* **13**, 8, 1181.
- Davis, A.P., and Burns, M. (1999) Evaluation of Lead Concentration in Runoff from Painted Structures. *Water Res.* (G.B.), **33**, 13, 2949.
- Dayaratne, S.T., and Perera, B.J.C. (1999) Parameter Optimization of Urban Storm water Drainage Models. *Proc. the Eighth International Conference on Urban Storm Drainage.* August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1768.
- DeCock, W.; Blom, P.; Vaes, G.; and Berlamont, J. (1999) The Feasibility of Flocculation in a Storage Sedimentation Basin. *Water Sci. Technol.* (G.B.), **39**, 2, 75.
- Debs, I.; Sparks, D.; Rousselle, J.; and Birikundavyi, S. (1999) Evaluation of Methods used for Estimating Probable Maximum Flood in Northern Countries. *Canadian J. of Civil Eng.* **26**, 3, 355.
- Del Giudice, G., and Hager, W.H. (1999) Sewer Sideweir with Throttling Pipe. *J. Irrig. Drain. Eng.* **125**, 5, 298.
- Delbec, M., and Muchel, J-M. (1999) Indicators for the Evaluation of Oxygen Depletions Applied to the River Seine. *Proc. the Eighth International Conference on Urban Storm Drainage.* August 30 – September 3, 1999, Sydney, Australia. Edited by

- IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality. 674.
- Deletic, A. (1999) Sediment Behaviour in Grass Filter Strips. *Water Sci. Technol.* (G.B.), **39**, 9, 129.
- Dennis, P.; Guymer, I.; and Antonopoulos, C. (1999) Optimisation of the Aggregated Dead Zone Model for Solute Dispersion in Surcharged Manholes. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 763.
- Dermissi, N.; Tassoula, A.; and Dermissi, S. (1999) Ecotechnological Nonpoint Source Pollution Control. *Fresenius Environ. Bull.*, **7**, 1A-2A Special Issue SI, 155.
- Derrigan, J. (1999) Putting Natural Systems to Work on the Farm. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Derry, W.E.; Haub, A.; Dobey, E.; and Hoey, J. (1999) City of Olympia Aquatic Habitat Evaluation and Management Study. *Proceedings: AWRA's 1999 Annual Water Resources Conference - Watershed Management to Protect Declining Species*, December 1999, Seattle, WA. American Water Resources Association, 323.
- Despotovic, J.; Petrovic, J.; Zlatanoiv, V.; Jacimovic, V.; Djordjevic, S.; Jovanovic, M.; Djukic, A.; Babic, B.; and Prodanovic, D. (1999) Preliminary Design for Reconstruction of Stormwater and Wastewater System in a Developed Area – a Case Study. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 721.
- Devos, A.; Jaillet, S.; and Gamez, P. (1999) Tectonic Structure and Water Constraint Advances in Karstic Aquifers of the Barrois Area (Lorraine/Champagne France). *Geodinamica Acta*. **12**, 3-4, 249.
- DeVuyst, E.A., and Ipe, V. (1999) A Group Incentive Contract to Promote Adoption of Best Management Practices. *J. Agric. Resour. Econic.* **24**, 2, 367.
- DeWalle, D.R.; Tepp, J.S.; Swistock, B.R.; Sharpe, W.E.; and Edwards, P.J. (1999) Tree-Ring Cation Response to Experimental Watershed Acidification in West Virginia and Maine. *J. Environ. Qual*, **28**, 299.
- Dhakal, A.S.; Amada, T.; and Aniya, M. (1999) Landslide Hazard Mapping and the Application of GIS in the Kulekhani Watershed, Nepal. *Mountain Res. Dev.* **19**, 1, 3.
- Diamond, M.L. (1999) Development of a Fugacity/Equivalence Model of Mercury Dynamics in Lakes. *Water, Air, Soil Pollut.* **111**, 1-4, 337.

- Dias, N.L., and Kan, A. (1999) A Hydro meteorological Model for Basin-Wide Seasonal Evapo transpiration. *Water Resour. Res.* **35**, 11, 3409.
- Dierkes, C., and Geiger, W.F. (1999) Pollution Retention Capabilities of Roadside Soils. *Water Sci. Technol.* (G.B.), **39**, 2, 201.
- Dierkes, C.; Holte, A.; and Geiger W.F. (1999) Heavy Metal Retention Within a Porous Pavement Structure. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1955.
- Diermanse, F.L.M. (1999) Representation of Natural Heterogeneity in Rainfall-Runoff Models. *Physics & Chemistry of the Earth Part B-Hydrology Oceans & Atmosphere*. **24**, 7, 787.
- Dietterick, B.C.; Lynch, J.A.; and Corbett, E.S. (1999) A Calibration Procedure Using TOPMODEL to Determine Suitability for Evaluating Potential Climate Change Effects on Water Yield. *J. Am. Water Resour. Assoc.* **35**, 2, 457.
- DiGiovanni, C.; Disnar, J.R.; Turpin, S.; and Breheret, J.G. (1999) Contribution of Reworked Organic Matter in soils and Present Lacustrine Sediments (Peyssiers basin, Hautes-Alpes, France): preliminary results. *Bulletin de la Societe Geologique de France*. **170**, 2, 121.
- Dillon, P.; Pavelic, P.; Sibenbaler, X.; Gerges, N.; and Clark, R. (1999) Development of New Water Resources by Aquifer Storage and Recovery Using Stormwater Runoff. *Int. Water Irrig. Rev.* **19**, 2, 5.
- Dinicola, R.S. (1999) Validation of a Rainfall-Runoff Modeling Method Using Regionalized HSPF Parameter Values for King and Snohomish Counties, Washington. *Proceedings: AWRA's 1999 Annual Water Resources Conference - Watershed Management to Protect Declining Species*, December 1999, Seattle, W.A. American Water Resources Association, 295.
- Dixit, S.S.; Dixit, A.S.; and Smol, J.P. (1999) Lake Sediment Chrysophyte Scales from the Northeastern USA and Their Relationship to Environmental Variables. *J. Phycol.* **35**, 5, 903.
- Dixon, A.; Butler, D.; and Fewkes, A. (1999) Water Saving Potential of domestic water reuse systems using greywater and Rainwater in Combination. *Water Sci. and Tech.* **39**, 5, 25.
- Djordjevic, S.; Prodanovic, D.; and Maksimovic, C. (1999) Approach to Simulation of Dual Drainage. *Water Sci. and Tech.* (G.B.), **39**, 9, 95.
- Doering, P.H., and Chamberlain, R.H. (1999) Water Quality and Source of Freshwater Discharge to the Caloosahatchee Estuary, Florida. *J. Am. Water Resour. Assoc.* **35**, 4, 793.
- Doherty, F.G.; Qureshi, A.A.; and Razza, J.B. (1999) Comparison of the *Ceriodaphnia dubia* and Microtox® Inhibition Tests For Toxicity Assessment of Industrial and Municipal Wastewaters. *Environ. Toxicol.* **14**, 4, 375.

- Dolcine, L.; Andrieu, H.; and French, M.N. (1999) Evaluation of a Conceptual Rainfall Forecasting Model from Observed and Simulated Rain Events. *Hydrol. Earth Syst. Sci.*, **2**, 2-3, 173.
- Doll, A.; Scodari, P.F.; and Lindsey, G. (1999) Credits as Economic Incentives for ON-Site Stormwater Management: Issues and Examples, *Proc. National Conf. on Retrofit Opport. for Water Rec. Protect. in Urban Environ.*, Chicago, IL, EPA/625/C-99/001, U.S. EPA, Washington, D.C., 113.
- Dombeck, G.D.; Perry, M.W.; and Anderson, M.B. (1999) Trace Metals Assimilation in Treatment Wetland Sediments. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Donabaum, K.; Schagerl, M.; and Dokulil, M.T. (1999) Integrated Management to Restore Macrophyte Domination. *Hydrobiologia*. 396:87.
- Donnelly-Makowecki, L.M., and Moore, R.D. (1999) Hierarchical Testing of Three Rainfall-Runoff Models in Small Forested Catchments, *J. Hydrol. (Neth.)*, **219**, 3-4, 136.
- Dormoy, T.; Tisserand, B.; and Herremans, L. (1999) Impact of the Volume of Rain Water on the Operating Constraints for a Treatment Plant. *Water Sci. Technol. (G.B.)*, **39**, 2, 145.
- Duffera, M.; Robarge, W.P.; and Mikkelsen, R.L. (1999) Greenhouse Evaluation of Processed Swine Lago on Solids as a Fertilizer Source. *J. Plant Nutr.* **22**, 11, 1701.
- Duke, L.D.; Lo, T.S.; and Turner, M.W. (1999a) Chemical Constituents in Storm Flow vs. Dry Weather Discharges in California Storm Water Conveyances. *J. Am. Water Resour. Assoc.* **35**, 4, 821.
- Duke, L.D.; Coleman, K.P.; and Masek, B. (1999b) Widespread Failure to Comply with US Storm Water Regulations for Industry - Part I: Publicly Available Data to Estimate Number of Potentially Regulated Facilities. *Environ. Eng. Sci.*, **16**, 4, 229.
- Dupre, B.; Viers, J.; Dandurand, J.L.; Polve, M.; Benezeth, P.; Vervier, P.; and Braun, J.J. (1999) Major and Trace Elements Associated With Colloids in Organic-Rich River Waters: Ultrafiltration of Natural and Spiked Solutions. *Chemical Geology*. **160**, 1-2, 63.
- Duram, L.A., and Brown, K.G. (1999) Assessing Public Participation in US Watershed Planning Initiatives. *Soc. Natl. Resour.* **12**, 5, 455.
- Durrans, S.R.; Burian, S.J.; Nix, S.J.; Hajji, A.; Pitt, R.E.; Fan, C-Y.; and Field, R. (1999) Polynomial-based Disaggregation of Hourly Rainfall for Continuous Hydrologic Simulation. *J. Am. Water Resour. Assoc.* **35**, 5, 1213.
- EPA (1999) *National Conference on Retrofit Opportunities for Water Resource Protection in Urban Environments*. February 9 – 12, 1998, Chicago, IL, EPA/625/R-99/002, U.S. Environmental Protection Agency, Cincinnati, OH.

- Easton, J.E.; Lalor, M.; Gauthier, J.J.; and Pitt, R.E. (1999) In-situ Die-Off of Indicator Bacteria and Pathogens. *Proceedings: AWRA's 1999 Annual Water Resources Conference - Watershed Management to Protect Declining Species*, December 1999, Seattle, WA. American Water Resources Association, 449.
- Easton, J.H.; Lalor, M.; Gauthier, J.J.; Pitt, R.; Newman, D.E.; and Meyland, S. (1999) Determination of Survival Rates for Selected Bacterial and Protozoan Pathogens from Wet Weather Discharges. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Eckert, G.J.; Marr, A.; and Bavor, J. (1999) Upper Narellan Creek Water Quality Management System. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 2074.
- Edeso, J.M.; Merino, A.; Gonzalez, M.J.; and Marauri, P. (1999) Soil Erosion Under Different Harvesting Managements in Steep Forestlands from Northern Spain. *Land Degradation & Development*. **10**, 1, 79.
- Edijatno-Nascimento, N.D.; Yang, X.L.; Makhlouf, Z.; and Michel, C. (1999) GR3J: A Daily Watershed Model with Three Free Parameters. *Hydrol. Sci. J.-Journal des Sciences Hydrologiques*. **44**, 2, 263.
- Edwards, D.R.; Moore Jr., P.A.; Workman, S.R.; and Bushee, E.L. (1999a) Runoff of Metals from Alum-Treated Horse Manure and Municipal Sludge. *J. Am. Water Resour. Assoc.*, **35**, 1, 155.
- Edwards, C.L.; Shannon, R.D.; and Jarrett, A.R. (1999b) Sedimentation Basin Retention Efficiencies for Sediment, Nitrogen, and Phosphorus from Simulated Agricultural Runoff. *Trans. ASAE*, **42**, 2, 403.
- Egan, A.F. (1999) Forest roads: Where Soil and Water Don't Mix. *J. Of For.*. **97**, 8, 18.
- Eghball, B., and Gilley, J.E. (1999) Phosphorus and Nitrogen in Runoff Following Beef Cattle Manure or Compost Application. *J. Environ. Qual.*, **28**, 4, 1201.
- Eidem, J.M.; Simpkins, W.W.; and Burkart, M.R. (1999) Geology, Groundwater Flow, and Water Quality in the Walnut Creek Watershed. *J Environ. Qual.*, **28**, 60.
- Einfalt, T., and Maul-Kotter, B. (1999) Radar Data – Accurate Enough for Model Use? *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 459.
- Elliot, W.J., and Tysdal, L.M. (1999) Understanding and Reducing Erosion from Insloping Roads. *J. For.*. **97**, 8, 30.
- El-Sayed, N.; Abdel-Rehim, Z.S.; Huang, Y-L.; and Kummler, R.H. (1999) Chapter 13: Heavy Metal Loadings to the Detroit

- River from Combined Sewer Overflows. In: *New Applications in Modeling Urban Water Systems*. Monograph 7 in the series. W. James, Ed. Pub. by CHI, Guelph, Canada, 243.
- Ellis J.B. (1999) Design Considerations for the use of Vegetative Controls for the Treatment of Highway Discharges. *IAHS Publication (Int. Assoc. of Hydrol. Sci.)*, **259**, 357.
- Ellis, J.B. (1999) Vegetative Systems for Highway Discharges: Design and Operation. *Comprehensive Stormwater & Aquatic Ecosystem Manage. Conf. Papers First South Pacific Conf.*, Auckland, New Zealand.
- Elzufon, B., and Harris, C. (1999) Residential and Commercial Source Control Programs to Meet Water Quality Goals (WERF Project 95-IRM-1). *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Endreny, T.A., and Wood, E.F. (1999) Distributed Watershed Modeling of Design Storms to Identify Nonpoint Source Loading Areas. *J. Environ. Qual.*, **28**, 388.
- Eng, K., and Brutsaert, W. (1999) Generality of Drought Flow Characteristics within the Arkansas River Basin. *J. Geophys. Res. Atmos.*, **104**, D16, 19435.
- Environmental Science & Technology (1999) NRDC Report Hacks Long-Delayed Stormwater Rules. *Environ. Sci. Technol.*, **33**, 15, 311A.
- Escameia, M., and Swaffield, J.A. (1999) Prototype Monitoring and Numerical Simulation of Roof Gutter Systems. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1399.
- Ewen, J.; Sloan, W.T.; Kilsby, C.G.; and O'Connell, P.E. (1999) UP Modeling System for Large Scale Hydrology: Deriving Large-Scale Physically-based Parameters for the Arkansas-Red River Basin. *Hydrol. Earth Syst. Sci.*, **3**, 1, 125.
- Ewing, S. (1999) Landcare and Community-Led Watershed Management in Victoria, Australia. *J. Am. Water Resour. Assoc.*, **35**, 3, 663.
- Falatah, A.M.; Al-Omran, A.M.; Shalaby, A.A.; and Mursi, M.M. (1999) Infiltration in a Calcareous Sandy Soil as Affected By Water-Soluble Polymers. *Arid Soil Research & Rehabilitation*, **13**, 1, 61.
- Fankhauser, R. (1999) Automatic Determination of Imperviousness in Urban Areas from Digital Orthophotos. *Water Sci. Technol. (G.B.)*, **39**, 9, 81.
- Faram, M.G., and Andoh, R.Y.G. (1999) Evaluation and Optimisation of a Novel Self-cleansing Combined Sewer Overflow Screening System Using Computation Fluid Dynamics. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of

- Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1107.
- Farm, C., and Renman G. (1999) Removal of Pollutants from Road Runoff – the Vallby System in Sweden. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1841.
- Farrugia, F.; Guivarc'h, H.; and Mouchel, J.M. (1999) Pesticide Uses and Transfers in Urbanized Catchments. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 121.
- Faure, D.; Schmitt, J.P.; and Auchet, P. (1999) Limits of Radar Rainfall Forecasting For Sewage System Management: Results and Application in Nancy. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 441.
- Felip, M.; Camarero, L.; and Catalan, J. (1999) Temporal Changes of Microbial Assemblages in the Ice and Snow Cover of a High Mountain Lake. *Limnology & Oceanography*. **44**, 4, 973.
- Fenn, M.E.; De Bauer, L.I.; Quevedo-Nolasco, A.; and Rodriguez-Frausto, C. (1999) Nitrogen and Sulfur Deposition and Forest Nutrient Status in the Valley of Mexico. *Water, Air, Soil Pollut.* **113**, 1-4, 155.
- Fernandez, I.; Rustad, L.; David, M.; Nadelhoffer, K.; and Mitchell, M. (1999) Mineral Soil and Solution Responses to Experimental N and S Enrichment at the Bear Brook Watershed in Maine (BBWM). *Environ. Monit. Assessmt.*, **55**, 165.
- Field, R., and Sullivan, D. (1999) Overview of EPA's Wet-Weather Flow Research Program. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1597.
- Fischer, D. (1999) Stormwater Impacts on Ground Water Quality via Detention Basins. *ASCE 26th Annu. Conf. Water Resour. Plann Manage. 1999 Annu. Conf. Environ. Eng.*, Tempe, AZ.
- Fisher, T.S.; Hayward, D.G.; Stephens, R.D.; and Stenstrom, M.K. (1999) Dioxins and Furans Urban Runoff. *J. Environ. Eng.* **125**, 2, 185.
- Fitzhugh, R.D.; Furman, T.; Webb, J.R.; Cosby, B.J.; and Driscoll, C.T. (1999) Longitudinal and Seasonal Patterns of Stream Acidity in a Headwater Catchment on the Appalachian Plateau, West Virginia, USA. *Biogeochemistry*. **47**, 1, 39.

- Fitzpatrick, J.J., and Isleib, R.R. (1999) An Analysis of the Impacts of Wastewater Treatment Plant Outfall Relocation on Boston Harbor, Massachusetts Bay and Cape Cod Bay water quality. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Fitzpatrick, J.J., and Meyers, M.B. (1999) A Review of Methodologies for use in Determining Nutrient Criteria in Coastal and Estuarine Systems. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA
- Fitzpatrick, J.J.; Meyers, M.B.; DiToro, D.M.; and Moustafa, M.Z. (1999) A Nutrient-Based Model of Emergent Macrophytes in a Southern Florida Everglades Wetland. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA
- Flammarion, P., and Garric, J. (1999) A Statistical Approach for Classifying the Extent of EROD Induction of Fish Sampled in Clean and Contaminated Waters. *Water Res. (G.B.)*, **33**, 11, 2683.
- Fo, A.J.P., and Crawford, K.C. (1999) Mesoscale Precipitation Fields. Part I: Statistical Analysis And Hydrologic Response. *J. Appl. Meteorol.* **38**, 1, 82.
- Fo, A.J.P.; Crawford, K.C.; and Stensrud, D.J. (1999) Mesoscale Precipitation Fields. Part II: Hydrometeorologic Modeling. *J. Appl. Meteorol.* **38**, 1, 102.
- Foerster, J. (1999) Variability of Roof Runoff Quality. *Water Sci. and Tech.* **39**, 5, 137.
- Folly, A.; Quinton, J.N.; and Smith, R.E. (1999) Evaluation of the EUROSEM Model Using Data From The Catsop Watershed, The Netherlands. *Catena*. **37**, 3-4, 507.
- Forster, J., and Knoche, G. (1999) Quality of Roof Runoff From Green Roofs. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1312.
- Fort, D.D. (1999) The Western Water Commission: Watershed Management Receives The Attention of a New Generation. *J. Am. Water Resour. Assoc.* **35**, 2, 223.
- Fox, P. (1999) Integrated Water Reuse: A Watershed Approach. *J. Environ. Eng.-ASCE*. **125**, 5, 395-396.
- Frank, E.; Borga, M.; and Anagnostou, E.N. (1999) Hydrological Modelling of Mountainous Basins Using Radar Rainfall Data. *Proc. Conference on Radar Meteorology*. 717.
- Frankenberger, J.R.; Brooks, E.S.; Walter, M.T.; Walter, M.F.; and Steenhuis, T.S. (1999) A GIS-Based Variable Source Area Hydrology Model. *Hydrological Processes*. **13**, 6, 805.
- Fraser, A.G., and Ashley, R.M. (1999) A Model for the Prediction and Control of Problematic Sediment Deposits. *Proc. the*

Eighth International Conference on Urban Storm Drainage. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 635.

Freedman, S.D.; Glidden, D.C.; Smith, C.N.; and Glenn, J.S. (1999) Augusta, Maine, implements New England's First Impervious Area-Based Rate Structure to Finance Long-Term CSO Abatement Program. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.

Freese, S.D.; Nozaic, D.J.; Pryor, M.J.; Trollip, D.L.; Smith, R.A.; and Rajagopaul, R. (1999) Cost Effective Treatment Options for Reuse of Industrially Polluted Water: a South African Perspective. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.

French, K.J.; Scruton, D.A.; Anderson, M.R.; and Schneider, D.C. (1999) Influence of Physical and Chemical Characteristics on Mercury in Aquatic Sediments. *Water, Air, & Soil Pollution*. **110**, 3-4, 347.

Fronteau, C., and Bauwens, W. (1999) Ecological Interpretation of Integrated Model Output. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1033.

Fruhauf, C.; Zimmermann, L.; and Bernhofer, C. (1999) Comparison of Forest Evapotranspiration from EC EB-Measurements Over a Spruce Stand with the Water Budget of a Catchment. *Physics & Chemistry of the Earth Part B-Hydrology Oceans & Atmosphere*. **24**, 7, 805.

Fry, B. (1999) Using Stable Isotopes to Monitor Watershed Influences on Aquatic Trophodynamics. *Canadian J. Fish. Aquat. Sci.* **56**, 11, 2167.

Fuchs, L.; Gunther, H.; and Scheffer, C. (1999) Comparison of Quantity and Quality Oriented Real Time Control of a Sewer System. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality. 432.

Funke, R. (1999) Parameterization and Regionalization of a Runoff Generation Model for Heterogeneous Catchments. *Physics & Chemistry of the Earth Part B-Hydrology Oceans & Atmosphere*. **24**(1-2):49.

Furumai, H.; Hijioka, Y.; and Ichikawa, A. (1999) Evaluation of Storage Ability of an Additional Main Pipe in Inundation Control for Suspended Solids Loads from CSO Using A Distributed Model. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association

on Water Quality. 1262.

- Gabb, D.M.D.; Suto, P.J.; and Rockafellow, J.W. (1999) Investigation of the Causes for Low pH at East Bay Municipal Utility District's Wet Weather Treatment Facilities. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, L.A.
- Gaillot, S., and Piegay, H. (1999) Impact of Gravel-Mining on Stream Channel and Coastal Sediment Supply: Example of the Calvi Bay in Corsica (France). *J. Coastal Res.* **15**, 3, 774.
- Ganzevles, P.P.G. (1999) Smart drain: a New Concept for Urban Storm Drainage. in: *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality. 948.
- Garcia, E., and Carignan, R. (1999) Impact of Wildfire and Clear-Cutting in the Boreal Forest on Methyl Mercury in Zooplankton. *Canadian J. Fish. Aquat. Sci.* **56**, 2, 339.
- Garnaud, S.; Mouchel, J.M.; Chebbo, G.; and Thevenot, D.R. (1999a) Heavy Metal Concentrations in Dry and Wet Atmospheric Deposits in Paris District: Comparison with Urban Runoff. *Sco. Total Environ.* **235**, 1-3, 235.
- Garnaud, S.; Mouchel, J-M.; and Thevenot, D.R. (1999b) Mobility Evolution of Particulate Trace Metals in Urban Runoff: From Street Deposits and Road Runoff to Combined Sewer Deposits and Catchment Outlet. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1511.
- Garten, C.T. (1999) Modeling the Potential Role of a Forest Ecosystem in Phytostabilization and Phytoextraction of Sr-90 at A Contaminated Watershed. *J. Environ. Radioactivity*. **43**, 3, 305.
- Gautier, A.; Barraud, S.; and Bardin, J.P. (1999) An Approach to the Characterization and Modeling of Clogging in Storm Water Infiltration Facilities. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1007.
- Gay, I., and Macaire, J.J. (1999) Estimation of Late Glacial and Holocene Chemical Erosion Rates, Lake Chambon Watershed, Massif Central, France. *Comptes Rendus de l'Academie des Sciences Serie II Fascicule A-Sciences de la Terre et des Planetes*. **328**, 6, 387.
- Gburek, W.J., and Folmar, G.J. (1999) Flow and Chemical Contributions to Streamflow in an Upland Watershed: A Baseflow Survey. *J. Hydrol. (Neth.)* **217**, 1-2, 1.

- Gburek, W.J., and Folmar, G.J. (1999) Patterns of Contaminant Transport in a Layered Fractured Aquifer. *J. Contam. Hydrol.* **37**, 1-2, 87.
- Gburek, W.J.; Folmar, G.J.; and Urban, J.B. (1999) Field Data and Ground Water Modeling in a Layered Fractured Aquifer. *Ground Water*. **37**, 2, 175.
- Geldof, G.D. (1999) Qwerties in Integrated Urban Water Management. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 809.
- Gelfan, A.; Hajda, P.; and Novotny, V. (1999) Recursive System Identification for Real-Time Sewer Flow Forecasting. *J. Hydrol. Eng.* **4**, 3, 280
- Gergel, S.E.; Turner, M.G.; and Kratz, T.K. (1999) Dissolved Organic Carbon as an indicator of the Scale of Watershed Influence on Lakes and Rivers [Review]. *Ecol. Applications*. **9**, 4, 1377.
- Ghani, A.; Salem, A.M.; Abdullah, R.; Yahaya, A.S.; Zakaria, N.A. (1999) Incipient Motion of Sediment Particles Over Loose Deposited Beds in a Rigid Rectangular Channel. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 157.
- Gharabaghi, B.; Dickinson, W.T.; Rudra, R.P.; Snodgrass, W.J.; and Krishnappan, B.G. (1999) Performance Analysis of Reinforced Vegetative Channel Lining Systems. *Computers & Structures*. **72**, 1-3, 149
- Gibson, J.; Kandasa my, J.; and Beecham, S. (1999) Recommendations for the Design and Analysis of Combining Flows in Stormwater Channels. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 730.
- Gigerl, T., and Rosenwinkel, K-H. (1999) Inventory Analysis of Different Materials to Build Sewer Systems. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1489.
- Gilliom, R.J.; Barbash, J.E.; Kolpin, D.W.; and Larson, S.J. (1999) Testing Water Quality for Pesticide Pollution. *Environ. Sci. Technol.*, **33**, 164.
- Giupponi, C.; Eiselt, B.; and Ghetti, P.F. (1999) A Multicriteria Approach for Mapping Risks of Agricultural Pollution for Water Resources: The Venice Lagoon Watershed Case Study. *J. Environ. Manage.* **56**, 4, 259.

- Giupponi, C., and Rosato, P. (1999) Agricultural Land Use Changes and Water Quality: A Case Study In The Watershed of the LAGOON of Venice. *Water Sci. Technol.* (G.B.), **39**, 3, 135.
- Glass, G.E., and Sorensen, J.A. (1999) Six-year trend (1990-1995) of Wet Mercury Deposition in the Upper Midwest USA. *Environ. Sci. Technol.* **33**, 19, 3303.
- Gonzalez, A.; Garnaud, S.; Carpentier, S.; Moilleron, R.; and Thevenot, D.R. (1999) Significance of Dissolved and Particulate Metal and Hydrocarbon Determinations in Urban Runoff Samples. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1816.
- Gonzalez, J.; Gomez, M.; and Rodellar, J. (1999) Applicability of Predictive Control on Sewer Systems. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1050.
- Goolsby, D.A. (1999) Sources and Loads of Nutrients Transported to the Gulf of Mexico. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Goovaerts, P. (1999) Using Elevation to Aid the Geostatistical Mapping of Rainfall Erosivity. *Catena*. **34**, 3-4, 227.
- Gopalakrishnan, C., and Malla, P.B. (1999) Residential Water Pricing and its Conservation Effects: A Case Study From Hawaii. *Proc. AWRA's 1999 Annual Water Resources Conference - Watershed Management to Protect Declining Species*, December 1999, Seattle, WA. American Water Resources Association, 353.
- Gornak, S.I., and Zhang, J. (1999) A Summary of Landowner Surveys and Water Quality Data from the Northern Lake Okeechobee Watershed. *Appl. Eng. Agric.* **15**, 2, 121.
- Gorthey, M.L.; DeOrio, F.J.; and Geisser, D.F. (1999) "Putting the Puzzle Together" The City of Auburn uses a Multiple Technology Approach to Sewer Overflow Abatement. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Gottfried, G.J.; DeBano, L.F.; and Folliott, P.F. (1999) Creating a Basis for Watershed Management in High Elevation Forests. Editors: Baker, M.B., *History of Watershed Research in the Central Arizona Highlands*. 35.
- Gowda, P.; Ward, A.; White, D.; Lyon, J.; and Desmond, E. (1999a) The Sensitivity of ADAPT Model Predictions of Streamflows to Parameters used to Define Hydrologic Response Units. *Trans. ASAE*. **42**, 2, 381.
- Gowda, P.H.; Ward, A.D.; White, D.A.; Baker, D.B.; and Lyon, J.G. (1999b) Using Field Scale Models to Predict Peak Flows on Agricultural Watersheds. *J. Am. Water Resour. Assoc.* **35**, 5, 1223.

- Goyen, A.G., and O'Loughlin, G.G. (1999) Evaluating the Basic Building Blocks of Urban Run off. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1382.
- Graham, S.T.; Famiglietti, J.S.; and Maidment, D.R. (1999) Five-minute, 1/2 Degrees, and 1 Degrees Data Sets of Continental Watersheds and River Networks for use in Regional and Global Hydrologic and Climate System Modeling Studies. *Water Resour. Res.* **35**, 2, 583.
- Gray, A. (1999) Li W.7 Case Study On Water Quality Modeling of Dianchi Lake, Yunnan Province, South West China. *Water Sci. and Tech.* **40**, 2, 35.
- Graziano, F.; Stein, S.; Cazenav, P.; and Young, K. (1999) Sheetflow Water Quality Monitoring Device: Results of Nine Month Field Testing. *ASCE 26th Annu. Conf. Water Resour. Plann. Manage. 1999 Annu. Conf. Environ. Eng.*, Tempe, AZ.
- Green, M.B.; Martin, J.R.; and Griffin, P. (1999) Treatment of Combined Sewer Overflows at Small Wastewater Treatment Works By Constructed Reed Beds. *Water Sci. Technol.* (G.B.), **40**, 3, 357.
- Greenberg, E.S.; Gagner, M.R.; and Reiser, D.R. (1999) An Approach For Evaluating Baseline Habitat Conditions Within Urban/Urbanizing Streams With Application to Prioritization of Recovery Efforts. *Proceedings: AWRA's 1999 Annual Water Resources Conference - Watershed Management to Protect Declining Species*, December 1999, Seattle, WA. American Water Resources Association, 409.
- Greer, R.K. (1999) Real World Modelling A Case Study of the Silver Lake Watershed Project. *Proc. National Conf. on Retrofit Opport. for Water Rec. Protect. in Urban Environ.*, Chicago, IL, EPA/625/C-99/001, U.S. EPA, Washington, D.C., 154.
- Gresswell, R.E. (1999) Fire and Aquatic Ecosystems in Forested Biomes of North America [Review]. *Transactions of the American Fisheries Society*. **128**, 2, 193.
- Grey, G.M.; Oliveri, F.; and Rozelman, S. (1999) The Role of Catch Basins in a CSO Floatables Control Program. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Griffin, C.B. (1999) Watershed Councils: An Emerging Form Of Public Participation In Natural Resource Management. *J. Am. Water Resour. Assoc.* **35**, 3, 505.
- Grimmond, C.S.B., and Oke, T.R. (1999) Evapotranspiration Rates in Urban Areas. *IAHS Publication (Int. Assoc. of Hydrol. Sci.)*. 259: 235.
- Gromaire, M.C.; Chebbo, G.; Constant, A.; Tabuchi, J.P.; and Desbordes, M. (1999) Suspended Solids and Organic Matter in Combined Sewers: Characteristics, Sources and Implication on CSO management. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE

- Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 2050.
- Gromaire-Mertz, M.C.; Garnaud, S.; Gonzalez, A.; and Chebbo, G. (1999) Characterisation of Urban Runoff Pollution in Paris. *Water Sci. Technol.* (G.B.), **39**, 2, 1.
- Grout, H.; Wiesner, M.R.; and Bottero, J.Y. (1999) Analysis of Colloidal Phases in Urban Stormwater Runoff. *Environ. Sci. Technol.* (G.B.), **33**, 6, 831.
- Grum, M., and Aalderink, R.H. (1999) Uncertainty in Return Period Analysis of Combined Sewer Overflow Effects Using Embedded Monte Carlo Simulations. *Water Sci. Technol.* (G.B.), **39**, 4, 233.
- Grunwald, S., and Frede, H.G. (1999) Using the Modified Agricultural Non-point Source Pollution Model in German Watersheds. *Catena*. **37**, 3-4, 319.
- Gu, R.C.; Voegelé, D.M.; and Lohnes, R.A. (1999) Evaluation of Stream Grade Control Structures in Loess Soil Region. *J. Hydraul. Eng.-ASCE*. **125**, 8, 882.
- Guan, X.H.; Svoboda, A.; and Li, C.A. (1999) Scheduling Hydro Power Systems with Restricted Operating Zones And Discharge Ramping Constraints. *IEEE Trans. Power Syst.* **14**, 1, 126.
- Guardo, M. (1999) Hydrologic Balance for a Subtropical Treatment Wetland Constructed for Nutrient Removal. *Ecol. Eng.* **12**, 3-4, 315.
- Guentner, A.; Uhlenbrook, S.; Seibert, J.; and Leibundgut, C. (1999) Multi-Criterial Validation of TOPMODEL in a Mountainous Catchment. *Hydrol. Processes*. **13**, 11, 1603.
- Guo, J.C.Y. (1999) Detention Storage Volume for Small Urban Catchments. *J. Water Resour. Plann. Manage.- ASCE*. **125**, 6, 380.
- Guo, Y., and Adams, B.J. (1999) Analytical Probabilistic Approach to Sizing Flood Control Detention Facilities. *Water Resour. Res.* **35**, 8, 2457.
- Guo, P.; Choudhary, M.A.; and Rahman, A. (1999) Tillage-Induced Changes in a Silt Loam Soil Under Continuous Cropping. II - Soil Erosion And Infiltrability Under Simulated Rainfall. *Int. Agric. Eng. J.* **8**, 3, 161.
- Guo, Y.P., and Adams, B.J. (1999) Analysis of Detention Ponds for Storm Water Quality Control. *Water Resources Research*. **35**, 8, 2447.
- Gupta, A.B.; Jain, R.; and Gupta, K. (1999) Water Quality Management for the Talkatora Lake, Jaipur - A Case Study. *Water Sci. and Tech.* **40**, 2, 29.
- Gupta, H.V.; Bastidas, L.A.; Sorooshian, S.; Shuttleworth, W.J.; and Yang, Z.L. (1999) Parameter Estimation of a Land

- Surface Scheme Using Multicriteria Methods. *J. Geophys. Res. Atmos.* **104**, D16, 19491.
- Gupta, K.; Jain, S.; Sharma, D. (1999) Problems in Modelling On-Site Detention in a Developing Country: Case Study of Jaipur, India. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 365.
- Gutierrez, M.A. (1999) Hydrological Forecast at Ungauged Urban Catchments, Using Regional Equations. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 2123.
- Gwo, J.P.; Wilson, G.V.; Jardine, P.M.; and D'Azevedo, E.F. (1999) Modeling Subsurface Contaminant Reactions And Transport at the Watershed Scale. *Assessment of Non-Point Source Pollution in the Vadose Zone*. 108 pages. 31-43. Book Editors: Corwin DL. Loague K. Ellsworth TR.
- Gyasi-Agyei, Y., and Willgoose, G.R. (1999) Generalization of a Hybrid Model for Point Rainfall. *J. Hydrol. (Neth.)*, **219**, 3-4, 218.
- Haarhoff, T. (1999) Taxation of Surface Runoff from Urban Areas – A Useful Step Towards Sustainable Urban Drainage Management. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 657.
- Haas, B.S., and Herrmann, R. (1999) Gas Transfer in Sewer Systems: Field Experiments and Implications. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 280.
- Haberstock, A. (1999) Method to Determine Optimal Riparian Buffer Widths for Atlantic Salmon Habitat Protection. *Proceedings: AWRA's 1999 Annual Water Resources Conference - Watershed Management to Protect Declining Species*, December 1999, Seattle, WA. American Water Resources Association, 143.
- Habets, F.; Noilhan, J.; Golaz, C.; Goutorbe, J.P.; Lacarrere, P.; Leblois, E.; Ledoux, E.; Martin, E.; Otle, C.; and Vidal-Madjar, D. (1999) ISBA Surface Scheme in a Macroscale Hydrological Model Applied to the Hapex-Mobilhy Area. Part II: Simulation of Streamflows and Annual Water Budget. *J. Hydrol. (Neth.)*, **217**, 1, 97.
- Haile, R.W.; Witte, J.S.; Gold, M.; Cressey, R.; McGee, C.; Millikan, R.C.; Glasser, A.; Harawa, N.; Ervin, C.; Harmon, P.; Harper, J.; Derrand, J.; Alamillo, J.; Barrett, K.; Nides, M.; and Wang, G.Y. (1999) The Health Effects of Swimming in

- Ocean Water Contaminated by Storm Drain Runoff. *Epidemiology*, **10**, 4, 355.
- Hairsine, P.B.; Sander, G.C.; Rose, C.W.; Parlange, J.-Y.; Hogarth, W.L.; Lisle, I.; and Rouhipour, H. (1999) Unsteady Soil Erosion Due to Rainfall Impact: A Model of Sediment Sorting on the Hillslope. *J. Hydrol. (Neth.)*, **220**, 3, 115.
- Hakonson, T.E. (1999) Effects of Pocket Gopher Burrowing on Water Balance and Erosion From Landfill Covers. *J. Environ. Qual.*, **28**, 2, 659.
- Hall, L.W.; Anderson, R.D.; Kilian, J.; and Tierney, D.P. (1999) Concurrent Exposure Assessments of Atrazine and Metolachlor in the Mainstem, Major Tributaries and Small Streams of the Chesapeake Bay Watershed: Indicators of Ecological Risk. *Environ. Monit. Assessmt.*, **59**, 2, 155.
- Hamacher, R., and Haubmann, R. (1999) Infiltration of Storm Water: a Concept for Urban Drainage Planning – Construction – Maintenance – Costs. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 12 17.
- Harper, H.H.; Herr, J.L.; and Livingston, E.H. (1999) Chapter 9: Alum Treatment of Stormwater: the First Ten Years. In: *New Applications in Modeling Urban Water Systems*. Monograph 7 in the series. W. James, Ed. Pub. by CHI, Guelph, Canada, 159.
- Hares, R.J., and Ward, N.I. (1999) Comparison of the Heavy Metal Content of Motorway Stormwater Following Discharge Into Wet Biofiltration and Dry Detention Ponds Along the London Orbital (M25) Motorway. *Sco. Total Environ.*, **235**, 1-3, 169.
- Harman-Fetcho, J.A.; McConnell, L.L.; and Baker, J.E. (1999) Agricultural Pesticides in the Patuxent River, a Tributary of the Chesapeake Bay. *J. Environ. Qual.*, **28**, 3, 928.
- Harris, R.R. (1999) Defining Reference Conditions for Restoration of Riparian Plant Communities: Examples from California, USA. *Environ. Manage.*, **24**, 1, 55.
- Harston, E., and Joliffe, I. (1999) Rationalisation of Sediment Basin Sizing. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 890.
- Harter, T.; Kesari, J.; Lowe, W.L.; and Hammell, J.O. (1999) Development of Treatment Systems for Nitrate Ester Wastewater to Meet Toxicity Based Effluent Limits. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA
- Hartley, W.R.; Englande, A.J.; and Harrington, D.J. (1999) Health Risk Assessment of Groundwater Contaminated with Methyl

- Tertiary Butyl Ether (MTBE). *Water Sci. Technol.* (G.B.), **39**, 10-11, 305.
- Hartman, M.D.; Baron, J.S.; Lammers, R.B.; Cline, D.W.; Band, L.E.; Liston, G.E.; and Tague, C. (1999) Simulations of Snow Distribution and Hydrology in a Mountain Basin. *Water Resources Research*. **35**, 5, 1587.
- Hartshorne, D.C., and Cadman, P. (1999) Storm Flood Relief Tank - Westbourne Avenue, Rhyl. *Proc. the Institution of Civil Engineers-Municipal Engineer*. **133**, 2, 77.
- Harwood, M.R.; Hacker, J.B.; and Mott, J.J. Field Evaluation of Seven Grasses for Use in the Revegetation of Lands Disturbed by Coal Mining in Central Queensland. *Australian Journal of Experimental Agriculture*. **39**, 3, 307.
- Harwood, R., and Saul, A.J. (1999) The Influence of CSO Chamber Size on Particle Retention Efficiency Performance. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1.
- Hasegawa, K.; Wada, Y.; and Miura, H. (1999) New Assessment System for Premeditated Management and Maintenance of Sewer Pipe Network. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 586.
- Hasegawa, T.; Nakanishi, M.; and Fujiura, S. (1999) Evaluation Method of Storm Water Infiltration System. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1927.
- Hastenrath, S.; Greischar, L.; Colon, E.; and Gil, A. (1999) Forecasting the Anomalous Discharge of the Caroni River, Venezuela. *Journal of Climate*. **12**, 8 Part 2, 2673.
- Hatch, A.C., and Burton, G.A. (1999) Sediment Toxicity and Stormwater Runoff in a Contaminated Receiving System: Consideration of Different Bioassays in the Laboratory and Field. *Chemosphere*, **39**, 6, 1001.
- Hatfield, J.L.; Jaynes, D.B.; Burkart, M.R.; Cambardella, C.A.; Moorman, T.B.; Prueger, J.H.; and Smith, M.A. (1999) Water Quality in Walnut Creek Watershed: Setting and Farming Practices. *J. Environ. Qual.* **28**, 1, 11.
- Hatfield, J.L.; Jaynes, D.B.; Burkart, M.R.; Cambardella, C.A.; Moorman, T.B.; Prueger, J.H.; and Smith, M.A. (1999) Special Submissions-Farming Systems Impact on Water Quality in Walnut Creek Watershed, Iowa. *J. Environ. Qual.*, **28**, 11.
- Hatfield, J.L.; Prueger, J.H.; and Meek, D.W. (1999) Spatial Variation of Rainfall Over a Large Watershed in Central Iowa. *Theoretical & Applied Climatology*. **64**, 1-2, 49.

- Hauer, F.R.; Poole, G.C.; Gangemi, J.T.; and Baxter, C.V. (1999) Large Woody Debris in Bull Trout (*Salvelinus confluentus*) Spawning Streams of Logged and Wilderness Watersheds in Northwest Montana. *Canadian J. Fish. Aquat. Sci.* **56**, 6, 915.
- Haug, R.T.; Cheng, P.P.L.; Hartnett, W.J.; Tekippe, R.J.; Rad, H.; and Esler, J.K. (1999) L.A.'s New Clarifier Inlet Nearly Doubles Hydraulic Capacity. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- He, C.S. (1999) Assessing Regional Crop Irrigation Requirements and Stream flow Availability for Irrigation Development in Saginaw Bay, Michigan. *Geographical Analysis*. **31**, 2, 169.
- Heal, K. (1999) Metals in Sediments of Sustainable Urban Drainage Structures in Scotland *IAHS Publication (Int. Assoc. of Hydrol. Sci.)*. 259: 331.
- Heaney, J.P.; Wright, L.; and Sample, D. (1999a) Research Needs in Urban Wet Weather Flows Source. *Water Environ. Res.*, **71**, 2, 241.
- Heaney, J.P.; Wright, L.T.; Sample, D.; Field, R.; and Fan, C-Y. (1999b) Innovative Methods for the Optimization of Gravity Storm Sewer Design. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1896.
- Heaney, J.P.; Sample, D.; and Wright, L. (1999c) Integration of GIS and Optimization for Evaluating Urban Storm Water Quality Options, *ASCE 26th Annu. Conf. Water Resour. Plann. Manage 1999 Annu. Conf. Environ. Eng.*, Tempe, AZ.
- Hebrard, C., and Delolme, C. (1999) Role of the Biotic Compartment in the Transfer of Zinc Through the Vadose Zone - Application to an Infiltration System. *Water Sci. Technol. (G.B.)*, **39**, 2, 209.
- Heddadj, D., and Gascuel-Oudou, C. (1999) Topographic and Seasonal Variations of Unsaturated Hydraulic Conductivity as Measured by Tension Disc Infiltrimeters at the Field Scale. *European Journal of Soil Science*. **50**, 2, 275.
- Hengnirun, S.; Barrington, S.; Prasher, S.O.; and Lyew, D. (1999) Development of Models Simulating Nitrogen Transport in soil and Manure. *Canadian Agricultural Engineering*. **41**, 1, 35.
- Henshaw, P.C. (1999) Rehabilitization of Stream Channels in Urban Watersheds. *Proceedings: AWRA's 1999 Annual Water Resources Conference - Watershed Management to Protect Declining Species*, December 1999, Seattle, WA. American Water Resources Association, 425.
- Herath, S.; Dutta, D.; and Musiak, K. (1999) Flood Damage Estimation of an Urban Catchment Using Remote Sensing and GIS. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 2177.

- Herath, S.; Musiame, K.; Silva, A.; and Hironaka, S. (1999) Monitoring and Modeling of urban Hydrology – A Case Study Of Two Japanese Catchments. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 2130.
- Herath, S.K.; Jayasuriya, L.N.N.; and Hussey, C.J. (1999) Modelling Wastewater Quality in Sewerage Systems. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 179.
- Heremaia, C. (1999) Water Resource Management Education for Schools, Water Expo 98 And Beyond. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 2022.
- Hernebring, C.; Mark, O.; and Gustafsson, L-G. (1999) Optimising Operating Strategies for Sewers and Wastewater Treatment Plants by Use of RTC and Integrated Modelling. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 418.
- Herricks, E. (1999) Urban Runoff Toxicity. *ASCE 26th Annu. Conf. Water Resour. Plann. Manage. 1999 Annu. Conf. Environ. Eng.*, Tempe, AZ.
- Herrmann, T.; Bruns, C.; Gatje, B.; and Ilgen, G. (1999) Urea – The Reason For Fish Kill After Overflow Events From Combined Sewers? *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 105.
- Herrmann, T.; Kaup, J.; and Hesse, T. (1999) Innovative Water Concept Applied at an Urban Multi-Storey Building. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1296.
- Herrmann, T.; Schukat, S.; and Huhn, V. (1999) What Do Our Rivers Consist Of? Effect of New Technologies in Water Supply and Urban Drainage on Fluxes of Nutrients and Water. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1606.

- Hessling, M. (1999) Hydrological Modelling and a Pair Basin Study of Mediterranean Catchments. *Physics & Chemistry of the Earth Part B-Hydrology Oceans & Atmosphere*. **24**, 1-2, 59.
- Hetling, L.J.; Jaworski, N.A.; and Garretson, D.J. (1999) Comparison of Nutrient Input Loading and Riverine Export Fluxes In Large Watersheds. *Water Sci. Technol.* (G.B.), **39**, 12, 189.
- Hickey, C.W. (1999) Multispecies Assessment of Water and Sediment Toxicity Associated with Urban and Industrial Stormwater Treatment Ponds: How Effective Are Ponds as a Toxicity Reduction System? *Comprehensive Stormwater & Aquatic Ecosystem Manage. Conf. Papers First South Pacific Conf.*, Auckland, New Zealand.
- Hidaka, A.; Suwa, Y.; Sakakibara, T.; Tanaka, T.; Sawai, G.; Horii, T.; and Tainaka, Y. (1999) Lake Biwa Water Quality Management Action Plan. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1728.
- Higdon, P., and Eger, J. (1999) Challenges of Managing a Tri-county Utility. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Hijioka, Y.; Furumai, H.; Ichikawa, A.; and Aoki, J. (1999) Application of Distributed Model to the Sewer Networks in Highly Urbanized Area in Japan. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1407.
- Hill, V.R.; Kantardjief, A.; Sobsey, M.D.; and Westerman, P.W. (1999) Reduction of Enteric Microbes and Nutrients in Flushed Swine Wastewater Treated by a Biological Aerated Filter and by U V Irradiation. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Hingray, B.; Bouvier, C.; Desbordes, M.; and Cappelaere, B. (1999) Urban Flooding: Hydraulic Behaviour and Modeling of Built-up Areas. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1457.
- Hipel, K.W., and Ben-Haim, Y. (1999) Decision Making in an Uncertain World: Information-Gap Modeling in Water Resources Management. *IEEE Transactions on Systems, Man & Cybernetics Part C: Applications & Reviews*. **29**, 4, 506.
- Hirahara, T. (1999) Direct Purification of River Water Using the Purifying Action of Plants. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Hirai, M.; Ino, M.; and Kawaguchi, T. (1999) Study on Priority Evaluating Process for Re-Constructing Planning of Urban Drainage System. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999,

- Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 602.
- Hiramatsu, K.; Shikasho, S.; and Mori, K. (1999) The Use of a State Space Predictor With Local Approximation for Short-Term Predictions of River Water-Stages. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 2186.
- Hobbs, D.V.; Tor, E.V.; and Shelton, R.D. (1999) Equalizing Wet Weather Flows. *Civil Eng.* **69**, 1, 56.
- Holas, J.; Holas, M.; and Chour, V. (1999) Pollution by Phosphorus and Nitrogen in Water Streams Feeding the Zelivka Drinking Water Reservoir. *Water Science & Technology*. **39**, 12, 207.
- Hollingworth, S.; Adams, B.J.; and Li, J.Y. (1999) Continuous Analysis of Stormwater Quality Ponds by Analytical Probabilistic Models. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1963.
- Holloway, J.M., and Dahlgren, R.A. (1999) Geologic Nitrogen in Terrestrial Biogeochemical Cycling. *Geology*. **27**, 6, 567.
- Holz, T.W. (1999) The Case for Zero Impact Development. *Proceedings: AWRA's 1999 Annual Water Resources Conference - Watershed Management to Protect Declining Species*, December 1999, Seattle, WA. American Water Resources Association, 465.
- Homoud, A.S.; Prior, G.; and Awud, A. (1999) Modelling the Effect of Rainfall on Instabilities of Slopes Along Highways. *Environ. Geol.* **37**, 4, 317.
- Hook, G.C., and Ott, R.R. (1999) Ammonia Removal Pilot Study Program for Metropolitan Syracuse STP. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Hornberger, M.I.; Luoma, S.N.; van Geen, A.; Fuller, C.; and Anima, R. (1999) Historical Trends of Metals in the Sediments of San Francisco Bay, California. *Marine Chemistry*. **64**, 1-2, 39.
- Horner, R.R., and Horner, C.R. (1999) Performance of a Perimeter (A Delaware) Sand Filter in Treating Stormwater Runoff from a Barge Loading Terminal. *Comprehensive Stormwater & Aquatic Ecosystem Manage. Conf. Papers First South Pacific Conf.*, Auckland, New Zealand.
- Horton, T.W.; Chamberlain, C.P.; Fantle, M.; and Blum, J.D. (1999) Chemical Weathering and Lithologic Controls of Water Chemistry in a High-Elevation River System: Clark's Fork of the Yellowstone River, Wyoming and Montana. *Water Resour. Res.* **35**, 5, 1643.

- Hottenroth, D.; Harper, C.; and Turner, J. (1999) Effectiveness of Integrated Stormwater Management in a Portland, Oregon, Watershed. *J. Am. Water Resour. Assoc.*, **35**, 3, 633.
- Houghton-Carr, H.A. (1999) Assessment Criteria for Simple Conceptual Daily Rainfall-Run off Models. *Hydrol. Sci. J.-Journal des Sciences Hydrologiques*. **44**, 2, 237.
- Hoybye, J., and Rosbjerg, D. (1999) Effect of Input and Parameter Uncertainties in Rainfall-Runoff Simulations. *J. Hydrol. Eng.*, **4**, 3, 214.
- Hrabak, D.; Pryl, K.; Richardson, J.; and Zeman, E. (1999) 3-Dimensional Modeling - A New Tool for the Evaluation of CSO Hydraulic Performance. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 928.
- Hromadka, T.V., and Whitley, R.J. (1999) On formalization of Unit-Hydrograph and Link-Node Hydrograph-Routing Systems. *J. Hydrol. (Neth.)* **223**, 1-2, 66.
- Hsieh, L.S., and Wang, R.Y. (1999) A Semi-distributed Parallel-type Linear Reservoir Rainfall-Runoff Model and its Application in Taiwan. *Hydrol. Processes*, **13**, 8, 1247.
- Hsu, B.M.; Huang, C.P.; Hsu, C.L.L.; Hsu, Y.F.; and Yeh, J.H. (1999) Occurrence of *Giardia* and *Cryptosporidium* in the Kaoping River and its Watershed in Southern Taiwan. *Water Res. (G.B.)*, **33**, 11, 2701.
- Hsu, M-H.; Ten, W-H.; and Huang, C-J. (1999) A Study on Floods and Inundation Models for River Basins. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 857.
- Huang, G.H.; Liu, L.; Chakma, A.; Wu, S.M.; Wang, X.H.; and Yin, Y.Y. (1999) A Hybrid GIS-Supported Watershed Modelling System: Application to the Lake Erhai Basin, China. *Hydrol. Sci. J.-Journal des Sciences Hydrologiques*. **44**, 4, 597.
- Huber, W.C., and Quigley, M.M. (1999) Simplified Fate and Transport Model of Runoff From Highway Construction and Repair Materials. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1209.
- Huberlant, B.; Swartenbroekx, P.; Van Damme, D.; and Kellagher, R. (1999) Application for the Urban Pollution Management Procedure. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association

- for Hydraulic Research, and The International Association on Water Quality, 194.
- Hudson, J. (1999) U.S. Environmental Protection Agency initiatives for Decentralized Wastewater Treatment. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Huerkamp, J.R., and Ahmad, S.A. (1999) Overcoming a Potential Environmental Crisis. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Hufnagel, C.L.; Kaunelis, V.P.; Kluitenberg, E.H.; and Neiber, J.S. (1999) What Performance Monitoring Tells Us About How To Improve The Design of CSO Storage/Treatment Basins. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Huisman, J.L.; Gienal, C.; Kuhni, M.; Krebs, P.; and Gujer, W. (1999) Oxygen Mass Transfer and Biofilm Respiration Rate Measurement in a Long Sewer, Evaluated With a Redundant Oxygen Balance. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 306.
- Hunt, J.W.; Anderson, B.S.; Phillips, B.M.; Tjeerdema, R.S.; Puckett, H.M.; and deVlaming, V. (1999) Patterns of Aquatic Toxicity in an Agriculturally Dominated Coastal Watershed in California. *Agriculture Ecosystems & Environment*. **75**, 1-2, 75.
- Hunt, P.G.; Stone, K.C.; Humenik, F.J.; Matheny, T.A.; and Johnson, M.H. (1999) In-Stream Wetland Mitigation of Nitrogen Contamination in a USA Coastal Plain Stream. *J. Environ. Qual.*, **28**, 249.
- Hussain, N.; Church, T.M.; and Kim, G. (1999) Use of Rn-222 and Ra-226 to Trace Groundwater Discharge into the Chesapeake Bay. *Marine Chemistry*. **65**, 1-2, 127.
- Hvitved-Jacobsen, T.; Vollertsen, J.; and Tanaka, N. (1999) Wastewater Quality Changes During Transport in Sewers – An Integrated Aerobic and Anaerobic Model Concept for Carbon and Sulfur Microbial Transformations. *Water Sci. Technol.* (G.B.). **39**, 2, 233.
- Ichiki, A., and Yamada, K. (1999) Effect of Watershed Characteristics on Pollutant Runoff from Urban Areas During Storm Events. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 187.
- Ichiki, A., and Yamada, K. (1999) Study on Characteristics of Pollutant Runoff into Lake Biwa, Japan. *Water Sci. and Tech.*. **39**, 12, 17.
- Ideta, I., and Kariya, K. (1999) Drainage Improvement Plan Using Runoff Hydraulic Simulation Software. *Proc. the Eighth*

- International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 64.
- Igwe, A.; Shaffer, W.; Gillard, R.; and McCormack, C. (1999) Lessons Learned from Operation and Maintenance of Combined Sewer Overflow Detention Basins. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Igwe, C.A. (1999) Land Use and Soil Conservation Strategies for Potentially Highly Erodible Soils of Central-Eastern Nigeria. *Land Degradation & Development*. **10**, 5, 425.
- Imperial, M.T. (1999) Institutional Analysis and Ecosystem-Based Management: The Institutional Analysis and Development Framework [Review]. *Environ. Manage.* **24**, 4, 449.
- Ingram, T.; Hull, T.; and Goodman, T. (1999) On-site wastewater management - An Integrated Approach to Improving Water Quality and Preventing Disease. *Journal of Environmental Health*. **62**, 2, 21.
- Isaac-Renton, J.; Blatherwick, J.; Bowie, W.R.; Fyfe, M.; Khan, M.; Li, A.; King, A.; McLean, M.; Medd, L.; Moorehead, W.; Ong, C.S.; and Robertson, W. (1999) Epidemic and Endemic Seroprevalence of Antibodies to *Cryptosporidium* and *Giardia* in Residents of Three Communities with Different Drinking Water Supplies. *American Journal of Tropical Medicine & Hygiene*. **60**, 4, 578.
- Isensee, A.R., and Sadeghi, A.M. (1999) Quantification of Runoff in Laboratory-Scale Chambers. *Chemosphere*. **38**, 8, 1733.
- Ishaq, A.M., and Khan, A.A. (1999) Modeling Infiltration for an Urban Runoff Model in Saudi Arabia. *Arabian Journal for Science & Engineering*. **24**, 2B, 203.
- Ishikawa, T.; Irie, M.; Terashima, T.; and Ozawa, K. (1999) Restoration of the Hydrological Cycle in the Izumi River Basin in Yokohama. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 530.
- Iwamoto, M.K.; Tanaka, K.; and Kubosono, H. (1999) A Drainage System for Urban Small River in Developing Town. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 689.
- Jack, A.G.; Ashley, R.M.; Akunna, J.; Wotherspoon, D.J.J.; and Petrie, M. (1999) Total Emission Analysis for Combined Sewer and Wastewater Treatment Plants. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1431.

- Jackson, T.J.; Le Vine, D.M.; Hsu, A.Y.; Oldak, A.; Starks, P.J.; Swift, C.T.; Isham, J.D.; and Haken, M. (1999) Soil Moisture Mapping at Regional Scales Using Micro wave Radiometry: The Southern Great Plains Hydrology Experiment. *IEEE Transactions on Geoscience & Remote Sensing*. **37**, 5 Part 1, 2 136.
- Jacopin, C.; Bertrand-Krajewski, J.L.; and Desbordes, M. (1999a) Characterisation and Settling of Solids in an Open, Grassed, Stormwater Sewer Network Detention Basin. *Water Sci. Technol.* (G.B.), **39**, 2, 135.
- Jacopin,C.; Lucas, E.; and Desbordes, M. (1999b) Analysis of the Limitations in the use of Detention Tanks to Control Pollution. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1271.
- Jain, S.K.; Das, A.; and Srivastava, D.K. (1999) Application of ANN for Reservoir Inflow Prediction and Operation. *J. Water Resour. Plann. Manage.- ASCE*. **125**, 5, 263.
- Jakeman, A.J.; Green, T.R.; Beavis, S.G.; Zhang, L.; Dietrich, C.R.; and Crapper, P.F. (1999) Modelling Upland and Instream Erosion, Sediment and Phosphorus Transport in a Large Catchment. *Hydrol. Processes*. **13**, 5, 745.
- James, W., and Gracie, J.W. (1999) Performance of Stream Restoration Efforts in Small Watersheds. *ASCE 26th Annu. Conf. Water Resour Plann Manage. 1999 Annu. Conf. Environ. Eng.*, Tempe, AZ.
- James, W., and Johanson, R.C. (1999) Chapter 1: A Note on an Inherent Difficulty with the Unit Hydrograph Method. In: *New Applications in Modeling Urban Water Systems*. Monograph 7 in the series. W. James, Ed. Pub. by CHI, Guelph, Canada, 1.
- James, W. (Ed.) (1999) *New Applications in Modeling Urban Water Systems*. Monograph 7 in the series. Computational Hydraulic Institute (CHI), Guelph, Canada.
- Jansson, A.; Folke, C.; Rockström, J.; and Gordon, L. (1999) Linking Freshwater Flows and Ecosystem Services Appropriated by People: The Case of the Baltic Sea Drainage Basin. *Ecosystems*. **2**, 4, 351.
- Jaques, R.S. (1999) Developing a Spill Prevention Program. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Jarrett, G.L.; Grace, P.A.; Terhune, J.D.; and Nichols, B.S. (1999) The Story of Urban Streams: Assessing Changes in Stream Health in Rapidly Urbanizing Watersheds. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Jaynes, D.B.; Hatfield, J.L.; and Meek, D.W. (1999) Water Quality in Walnut Creek Watershed: Herbicides and Nitrate in Surface Waters. *J. Environ. Qual*, **28**, 45.

- Jenkins, M.B.; Walker, M.J.; Bowman, D.D.; Anthony, L.C.; and Ghiorse, W.C. (1999) Use of a Sentinel System for Field Measurements of *Cryptosporidium parvum* Oocyst Inactivation in Soil and Animal Waste. *Appl. & Environ. Microbiol.* **65**, 5.
- Jeremiason, J.D.; Eisenreich, S.J.; Paterson, M.J.; Beaty, K.G.; Hecky, R.; and Elser, J.J. (1999) Biogeochemical Cycling of PCBs in lakes of Variable Trophic Status: A Paired-Lake Experiment. *Limnology & Oceanography*. **44**, 3 Part 2, 889.
- Jin, L.J.; Hui, Y.; and Xu, X.Q. (1999) Predictive Model for Mercury Accumulation in Carp (*Cyprinus carpio*) of Reservoirs in China. *Water, Air, Soil Pollut.* **115**, 1-4, 363.
- Johns, N.D.; Goodman, S.K.; and Vaughn, P.E. (1999) Bridging the Gap Between Water Quality and Water Supply Planning: A Texas Example of Innovative Modeling. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Johnson, B.; Toumari, D.; and Sinha, R. (1999) Impacts of On-site Sewage Systems and Illicit Discharges on the Rouge River. *Proc National Conf. on Retrofit Opport. for Water Rec. Protect. in Urban Environ.*, Chicago, IL, EPA/625/C-99/001, U.S. EPA, Washington, D.C., 132.
- Johnson, C.R.; Kaunelis, V.P.; and Cave, K.A. (1999) Can a Watershed be Managed? Leading the Efforts of Public Agencies and Local Communities in the Rouge River Watershed. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Johnson, G.D.; Myers, W.L.; and Patil, G.P. (1999) Stochastic Generating Models for Simulating Hierarchically Structured Multi-Cover Landscapes. *Landscape Ecology*. **14**, 5, 413.
- Johnston, R.J., and Swallow, S.K. (1999) Asymmetries in Ordered Strength of Preference Models: Implications of Focus Shift for Discrete-Choice Preference Estimation. *Land Economics*. **75**, 2, 295.
- Johnston, R.J.; Swallow, S.K.; and Weaver, T.F. (1999) Estimating Willingness to Pay and Resource Tradeoffs With Different Payment Mechanisms: An evaluation of a Funding Guarantee for Watershed Management. *Journal of Environmental Economics & Management*. **38**, 1, 97.
- Johnstone, F.M.; Ashley, R.M.; Souter, N.H.; Davies, J.W.; Milne, D.; and Schuetze, M. (1999) Developing Mass Balances for Sanitary Solids in Sewers for Use In Life Cycle Assessment. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 618.
- Jokela, J.B., and Pinks, C. (1999) Cold-climate Condition. *Civil Eng.* **69**, 3, 60.
- Jones, R.F., and Kloti, E. A High Capacity Overflow Device for Internal Box Gutters of Roofs. *Proc. the Eighth International*

- Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 771.
- Jones, R.F.; O'Loughlin, G.G.; and Egan, P.E. (1999) Roof and Property Drainage Design Methods for Australia and New Zealand. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 793.
- Joliffe, I.B., and Ball, J.E. (Ed.) (1999) *Proceedings of the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, London, UK.
- Kahl, J.; Norton, S.; Fernandez, I.; Rustad, L.; and Handley, M. (1999) Nitrogen and Sulfur Input-Output Budgets in the Experimental and Reference Watersheds, Bear Brook Watershed in Maine (BB WM). *Environ. Monit. Assessmt.*, **55**, 113.
- Kamdem, T.A., and Teugels, G.G. (1999) First data on an Index of Biotic Integrity (IBI) Based on Fish Assemblages for the Assessment of the Impact of Deforestation in a Tropical West African River System. *Hydrobiologia*. **397**, 29.
- Kammerbauer, J., and Ardon, C. (1999) Land use Dynamics and landscape Change Pattern in a Typical Watershed in the Hillside Region of Central Honduras. *Agriculture Ecosystems & Environment*. **75**, 1-2, 93.
- Kang, E.S.; Cheng, G.D.; Lan, Y.C.; and Jin, H.J. (1999) A Model for Simulating the Response of Runoff from the Mountainous Watersheds of Inland River Basins in the Arid Area of Northwest China to climatic changes. *Science in China Series D-Earth Sciences*. **42**, Suppl S, 52.
- Karaitiana, B.; Couling, K.; and Watts, R. (1999) Partnership with Maori (the indigenous people of New Zealand) to Sustainably Manage Christchurch's Waterways & Wetlands. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 2015.
- Karr, J.R. (1999) Defining and Measuring River Health. *Freshwater Biology*. **41**, 2, 221.
- Kawaguchi, T.; Asada, K.; and Zhang, S. (1999) The Change Tendency Analysis of Short-Term Rainfall Characteristics. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 905.
- Kawara, O.; Uehara, M.; and Ibaragi, K. (1999) Study on the Water Quality of Runoff From Forest. *Water Sci. and Tech.* **39**,

- Kayabali, K.; Celik, M.; Karatosun, H.; Arigun, Z.; and Kocbay, A. (1999) Influence of a Heavily Polluted Urban River on the Adjacent Aquifer Systems. *Environ. Geol.* **38**, 3, 233.
- Kearney, B., and Schoettle, T. (1999) Prototype Testing of Alternative Basin Cleaning System for CSO Storage Facility in New York City. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Kehrig, H.D., and Malm, O. (1999) Methylmercury in Fish as a Tool for Understanding the Amazon Mercury Contamination. *Applied Organometallic Chemistry*. **13**, 10, 689.
- Kellershohn, D.A., and Tsanis, I.K. (1999) 3d Eutrophication Modeling of Hamilton Harbour: Analysis of Remedial Options. *J. Great Lakes Res.*, **25**, 1, 3.
- Kelso, W. J., and Cirillo, J.R. (1999) Unique Process Combination Decontaminates Mixed Wastewater at Rocky Flats. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Kennedy, K. (1999) What's So Special About the Edwards Aquifer? *Proceedings: AWRA's 1999 Annual Water Resources Conference - Watershed Management to Protect Declining Species*, December 1999, Seattle, WA. American Water Resources Association, 115.
- Kennen, J.G. (1999) Relation of Macroinvertebrate Community Impairment to Catchment Characteristics in New Jersey Streams. *J. Am. Water Resour. Assoc.* **35**, 4, 939.
- Kenner, S.J., and Love, J.T. (1999) Using A Geographical Information System to Develop Hydrologic Input Parameters. *ASCE 26th Annu Conf. Water Resour. Plann. Manage. 1999 Annu. Conf. Environ. Eng.*, Tempe, AZ.
- Kenney, D.S. (1999) Historical and Sociopolitical Context of the Western Watersheds Movement. *J. Am. Water Resour. Assoc.* **35**, 3, 493.
- Kent, R.A.; Andersen, D.; Caux, P.Y.; and Teed, S. (1999) Canadian Water Quality Guidelines for Glycols - An Ecotoxicological Review of Glycols and Associated Aircraft Anti-Icing and Deicing Fluids [Review]. *Environmental Toxicology*. **14**, 5, 481.
- Keshavarzy, A., and Ball, J.E. (1999) Initiation of Sediment Motion at the Bed With Turbulent Shear Stresses in an Open Channel Flow. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 164.
- Ketcheson, G.L.; Megahan, W.F.; and King, J.G. (1999) "R1-R4" and "BOISED" Sediment Prediction Model Tests Using Forest Roads in Granitics. *J. Am. Water Resour. Assoc.* **35**, 1, 83.

- Khan, M.A. (1999) The Hydrological Response and nutrient loss of Certain Horticultural Ecosystems. *Journal of Arid Environments*. **42**, 4, 281.
- Khanhilvardi, R.; Shestopalov, V.; Onishchenko, I.; Bublyas, V.; and Gudzenko, V. (1999) Role of Erosion Processes in Transfer of Radionuclides: Results of Field Experiments. *J. Am. Water Resour. Assoc.* **35**, 4, 887.
- Kilsby, C.G.; Ewen, J.; Sloan, W.T.; Burton, A.; Fallows, C.S.; and O'Connell, P.E. (1999) The UP Modeling System for Large Scale Hydrology: Simulation of the Arkansas-red River Basin. *Hydrol. Earth Syst. Sci.*, **3**, 1, 137.
- Kim, S.; Delleur, J.W.; Mitchell, J.K.; Engel, B.E.; and Walker, S.E. (1999) Simulation of Runoff in Agricultural Watersheds with Tile Drains Using an Extended TOPMODEL. *Trans. ASAE*, **42**, 3, 639.
- Kimbrough, D.E., and Carder, N.H. (1999) Off-site Forensic Determination of Waterborne Elemental Emissions: A Case Study at a Secondary Lead Smelter. *Environmental Pollution*. **106**, 3, 293.
- King, K.W., and Balogh, J.C. (1999) Modeling Evaluation of Alternative Management Practices And Reclaimed Water for Turfgrass Systems. *J. Environ. Qual.* **28**, 1, 187.
- King, K.W.; Arnold, J.G.; and Bingner, R.L. (1999) Comparison of Green-Ampt and Curve Number Methods on Goodwin Creek Watershed Using SWAT. *Trans. ASAE*. **42**, 4, 919.
- Kiss, S.G. (1999) Drain Pipe System Manages Stormwater, Rainwater and High Groundwater. *Water Eng. Manage.* **146**, 8, 33.
- Kleckley, B. (1999) Use of Peak Flow Curves in Hydraulic Modeling and Post-Rehabilitation. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Klove, B., and Bengtsson, L. (1999) Run off Generation in a Plough-drained Cutover Fen in Central Finland. *J. Hydrol. (Neth.)*, **218**, 3-4, 157.
- Kluitenberg, E.H.; Mercer, G.W.; and Kaunelis, V. (1999) Water Quality Modeling to Support the Rouge River Restoration. *Proc. National Conf. on Retrofit Opport. for Water Rec. Protect. in Urban Environ.*, Chicago, IL, EPA/625/C-99/001, U.S. EPA, Washington, D.C., 160.
- Knauer, K.; Behra, R.; and Hemond, H. (1999) Toxicity of Inorganic and Methylated Arsenic to Algal Communities From Lakes Along An Arsenic Contamination Gradient. *Aquatic Toxicology*. **46**, 3-4, 221.
- Knight, R.L.; Kadlec, R.H.; and Ohlendorf, H.M. (1999) The Use of Treatment Wetlands for Petroleum Industry Effluents [Review]. *Environ. Sci. Technol.* **33**, 7, 973.
- Kobayashi, D.; Ishii, Y.; and Kodama, Y. (1999) Stream Temperature, Specific Conductance and Runoff Process in Mountain Watersheds. *Hydrological Processes*. **13**, 6, 865.
- Kobayashi, M. (1999) Storm Water Runoff Control in Nagoya City. *Proc. the Eighth International Conference on Urban Storm*

- Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 825.
- Koch, P.; Cauthorn, J.; and Kilgore, R. (1999) Determination of Flood Frequency as a Function of Mitigation Expenditure. *ASCE 26th Annu Conf. Water Resour. Plann. Manage. 1999 Annu. Conf. Environ. Eng.*, Tempe, AZ.
- Koishikawa, N.; Tanaka, N.; and Shibata, G. (1999) Analysis on Application of Rainfall Radar Information to Operation Support System of Drainage Facilities. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 450.
- Kolka, R.K.; Grigal, D.F.; Verry, E.S.; and Nater, E.A. (1999a) Mercury and Organic Carbon Relationships in Streams Draining Forested Upland/Peatland Watersheds. *J. Environ. Qual.*, **28**, 766.
- Kolka, R.K.; Nater, E.A.; Grigal, D.F.; and Verry, E.S. (1999b) Atmospheric Inputs of Mercury and Organic Carbon into a Forested Upland Bog Watershed. *Water, Air, Soil Pollut.* **113**, 1-4, 273.
- Konig, A.; Saegrov, S.; Selseth, I.; and Milina, J. (1999) Total Pollution Discharge as a Planning Concept for Urban Pollution Management. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1545.
- Koob, T.; Barber, M.E.; and Hathhorn, W.E. (1999) Hydrologic Design Considerations of Constructed Wetlands for Urban Stormwater Runoff. *J. Am. Water Resour. Assoc.* **35**, 2, 323.
- Koren, V.I.; Finnerty, B.D.; Schaake, J.C.; Smith, M.B.; Seo, D.J.; and Duan, Q.Y. (1999) Scale Dependencies of Hydrologic Models to Spatial Variability of Precipitation. *J. Hydrol. (Neth.)* **217**, 3-4, 285.
- Kornecki, T.S.; Sabbagh, G.J.; and Storm, D.E. (1999) Evaluation of Runoff, Erosion, and Phosphorus Modeling System – SIMPLE. *J. Am. Water Resour. Assoc.* **35**, 4, 807.
- Korving, J.L., and Wiggers, J.B.M. (1999) Information Needs for Strategic Management of Water Systems in the Urban Environment. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 379.
- Kosmala, A.; Charvet, S.; Roger, M.C.; and Faessel, B. (1999) Impact Assessment of a Wastewater Treatment Plant Effluent Using Instream Invertebrates and the *Ceriodaphnia dubia* Chronic Toxicity Test. *Water Res. (G.B.)*, **33**, 1, 266.
- Kothyari, U.C., and Singh, V.P. (1999) Multiple-input Single-output Model for Flow Forecasting. *J. Hydrol. (Neth.)* **220**, 1,

- Koval, P.V.; Kalmychkov, G.V.; Gelety, V.F.; Leonova, G.A.; Medvedev, V.I.; and Andrulaitis, L.D. (1999) Correlation of Natural and Technogenic Mercury Sources in the Baikal Polygon, Russia. *Journal of Geochemical Exploration*. **66**, 1-2, 277.
- Krebs, P.; Holzer, P.; Huisman, J.L.; and Rauch, W. (1999) First Flush of Dissolved Compounds. *Water Sci. Technol.* (G.B.), **39**, 9, 55
- Krebs, P.; Merkel, K.; and Kuhn, V. (1999) Dynamic Changes in Wastewater Composition During Rain Runoff. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 920.
- Kreeger, D.; Walesh, S.; and Al-Jobeh, Z. (1999) Sensitivity of Stormwater Conveyance System Cost to Design Recurrence Interval. *ASCE 26th Annu. Conf. Water Resour. Plann. Manage. 1999 Annu. Conf. Environ. Eng.*, Tempe, AZ.
- Krejci, V., and Borchardt, D. (1999) Cost-efficiency in Urban Drainage. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1972.
- Krejci, J.; Musilova, S.; and Stransky, D. (1999a) Rainfall Data Monitoring and Application for Urban Hydrology in the Czech Republic. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 467.
- Krejci, J.; Koudelak, P.; and Stransky, D. (1999b) Monitoring and Modelling of Integrated Urban Drainage. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 274.
- Krishnappan, B.G.; Marsalek, J.; Watt, W.E.; and Anderson, B.C. (1999) Seasonal Size Distributions of Suspended Solids in a Stormwater Management Pond. *Water Sci. Technol.* (G.B.), **39**, 2, 127.
- Kucera, D.J. (1999) Using Watershed Partnerships to Manage Source Water Quality. *Water-Eng. Manage.* **146**, 6, 20.
- Kuo, J.; Yu, S.L.; Fassman, E.A.; and Pan, H. (1999) Field Test of Grassed Swale Performance in Removing Runoff Pollution. *ASCE 26th Annu. Conf. Water Resour. Plann. Manage. 1999 Annu. Conf. Environ. Eng.*, Tempe, AZ.
- Kuo, W.L.; Steenhuis, T.S.; McCulloch, C.E.; Mohler, C.L.; Weinstein, D.A.; DeGloria, S.D.; and Swaney, D.P. (1999) Effect

- of Grid Size on Run off and Soil Moisture for a Variable-Source-Area Hydrology Model. *Water Resour. Res.* **35**, 11, 3419.
- Kustas, W.P., and Jackson, T.J. (1999) The Impact on Area-averaged Heat Fluxes from Using Remotely Sensed Data At Different Resolutions: A Case Study With Washita '92 data. *Water Resour. Res.* **35**, 5, 1539.
- Lachmayr, J.K., and Schofield, A. (1999) Field Methods for Locating Sources of Inflow From Large Multi-Story Buildings in Boston. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Laidig, K.J., and Zampella, R.A. (1999) Community Attributes of Atlantic White Cedar (*Chamaecyparis thyoides*) Swamps in Disturbed and Undisturbed Pinelands Watersheds. *Wetlands*. **19**, 1, 35.
- Lamb, R. (1999) Calibration of a Conceptual Rainfall-runoff Model for Flood Frequency Estimation by Continuous Simulation. *Water Resour. Res.* **35**, 10, 3103.
- Lammert, M., and Allan, J.D. (1999) Assessing Biotic Integrity of Streams: Effects of Scale in Measuring the Influence of Land Use/Cover and Habitat Structure on Fish and Macroinvertebrates. *Environ. Manage.* **23**, 2, 257.
- Lampman, G.G.; Caraco, N.F.; and Cole, J.J. (1999) Spatial and Temporal Patterns of Nutrient Concentration and Export in the Tidal Hudson River. *Estuaries*. **22**, 2A, 285.
- Land, M.; Ingri, J.; and Ohlander, B. (1999) Past and Present Weathering Rates in Northern Sweden. *Applied Geochemistry*. **14**, 6, 761.
- Lange, J.; Leibundgut, C.; and Schick, A.P. (1999a) Recent Techniques in Large Arid Catchments - Ways to Overcome Model Calibration. *IAHS Publication (Int. Assoc. of Hydrol. Sci.)*. 258: 231.
- Lange, J.; Leibundgut, C.; Greenbaum, N.; and Schick, A.P. (1999b) A Noncalibrated Rainfall-Runoff Model for Large, Arid Catchments. *Water Resour. Res.*, **35**, 7, 2161.
- Langeveld, J.G., and Wiggers, J.B.M. (1999) Appropriate Urban Water Systems: An Approach for Generating and Screening Promising Concepts. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 137.
- Lannon, R.P. Jr., and Roll, R.R. (1999) A Challenging Investigation of a Deep Tunnel Interceptor Blockage. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Lant, C.L. (1999) Human Dimensions of Watershed Management – Introduction. *J. Am. Water Resour. Assoc.* **35**, 3, 483.
- Laroche, A.M.; Gallichand, J.; and Theriault, M. (1999) Regional Estimation of Groundwater Recharge Using The Erosion-Productivity Impact Calculator. *Canadian Agricultural Engineering*. **41**, 1, 13.
- Larsen, M.C.; Torres-Sanchez, A.J.; and Concepcion, I.M. (1999) Slope wash, Surface Runoff and Fine-litter Transport in Forest

- and Landslide Scars in Humid-tropical Steeplands, Luquillo Experimental Forest, Puerto Rico. *Earth Surface Processes & Landforms*, **24**, 6, 481.
- Larsen, T. (1999) New Approach for Receiving Water Objectives for Overflows From Sewer Systems. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1233.
- Larson, M.G. (1999) Effectiveness of LWD in Stream Rehabilitation Projects in Urban Basins. *Proceedings: AWRA's 1999 Annual Water Resources Conference - Watershed Management to Protect Declining Species*, December 1999, Seattle, WA. American Water Resources Association, 377.
- Latchaw, J.L., and Jarrett, L. (1999) The Pond Creek watershed Restoration Project: A Model for Combining Habitat Restoration, Flood Mitigation and Sustained Development in an Urban Watershed. *Proceedings: AWRA's 1999 Annual Water Resources Conference - Watershed Management to Protect Declining Species*, December 1999, Seattle, WA. American Water Resources Association, 453.
- Lausten, T.A.; Marran, K.S.; Little, H.L.; and Coladonato, S. (1999) Design Parameters for a Biofilter that Successfully Treats Volatile Organic Compounds from a Combined Sewer. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Lawrence, A.I. (1999) Stormwater Pollution Control Pond & Wetland Models. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1058.
- Lawrence, A.I., and Breen, P.F. (1999) Application of Pond & Wetland Design Guidelines. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1066.
- Lawrence, A.I.; Ellis, J.B.; Marsalek, J.; Urbonas, B.; and Phillips, B.C. (1999) Total Urban Water Cycle Based Management. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1142.
- Lee, Y.H., and Singh, V.P. (1999) Tank Model Using Kalman Filter. *J. Hydrol. Eng.*, **4**, 4, 344.
- Legret, M.; Nicollet, M.; Miloda, P.; Colandini, V.; and Raimbault, G. (1999) Simulation of Heavy Metal Pollution from

- Stormwater Infiltration Through a Porous Pavement with Reservoir Structure. *Water Sci. Technol.* (G.B.), **39**, 2, 119.
- Lei, J.; Li, J.; and Schilling, W. (1999) Procedure of Urban Runoff Design Model and an Alternative of Monte-Carlo Simulation. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 973.
- Lek, S.; Guiresse, M.; and Giraudel, J.L. (1999) Predicting Stream Nitrogen Concentration From Watershed Features Using Neural Networks. *Water Res.* (G.B.), **33**, 16, 3469.
- Lemke, M.J., and Leff, L.G. (1999) Bacterial Populations in an Anthropogenically Disturbed Stream: Comparison of Different Seasons. *Microbial Ecology*. **38**, 3, 234.
- Lemly, A.D. (1999) Selenium Transport and Bioaccumulation in Aquatic Ecosystems: A Proposal For Water Quality Criteria Based On Hydrological Units. *Ecotoxicology & Environmental Safety*. **42**, 2, 150.
- Lerch, R.N.; Thurman, E.M.; and Blanchard, P.E. (1999) Hydroxyatrazine in Soils and Sediments. *Environ. Toxicol. Chem.* **18**, 10, 2161.
- Lerner, D.N.; Yang, Y.; Barrett, M.H.; and Tellam, J.H. (1999) Loadings of Non-agricultural Nitrogen in Urban Groundwater. *IAHS Publication (Int. Assoc. of Hydrol. Sci.)*. 259: 117.
- Letey, J. (1999) Science and Policy in Integrated Watershed Management: A Case Study. *J. Am. Water Resour. Assoc.* **35**, 3, 603.
- Leung, L.R., and Ghan, S.J. (1999) Pacific Northwest Climate Sensitivity Simulated by a Regional Climate Model Driven By a GCM. Part II: 2xCO₂ Simulations. *Journal of Climate*. **12**, 7, 2031.
- Levine, J.B., and Salvucci, G.D. (1999) Equilibrium Analysis of Groundwater-Vadose Zone Interactions and the Resulting Spatial Distribution of Hydrologic Fluxes Across a Canadian Prairie. *Water Resour. Res.* **35**, 5, 1369.
- Levy, G., and Papps, D. (1999) Development of a Standardized Storm Runoff Estimation Methodology for the Auckland Region. *Comprehensive Stormwater & Aquatic Ecosystem Manage. Conf. Papers First South Pacific Conf.*, Auckland, New Zealand.
- Lewis, W.M.; Melack, J.M.; McDowell, W.H.; McClain, M.; and Richey, J.E. (1999) Nitrogen yields from undisturbed watersheds in the Americas. *Biogeochemistry*. **46**, 1, 149.
- Li, J., and Joksimovic, D. (1999) Analysis of Average Conditions for Urban Drainage Modelling. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International

Association on Water Quality, 1752.

- Li, J.Y., and Banting, D. (1999) A Storm Water Retrofit Plan for the Mimico Creek Watershed. *Water Sci. Technol.* (G.B.), **39**, 12, 133.
- Li, Y.; Burchberger, S.G.; and Sansalone, J.J. (1999) Variably Saturated Flow in Storm-Water Partial Exfiltration Trench. (1999) *J. Environ. Eng.*, **125**, 6, 556.
- Liden, R.; Vasilyev, A.; Stalnacke, P.; Loigu, E.; and Wittgren, H.B. (1999) Nitrogen Source Apportionment - A Comparison Between a Dynamic and a Statistical Model. *Ecological Modelling*. **114**, 2-3, 235.
- Liebault, F.; Clement, P.; Piegay, H.; and Landon, N. (1999) Assessment of Bedload Delivery From Tributaries: The Drome River Case, France. *Arctic Antarctic & Alpine Research*. **31**, 1, 108.
- Liebig, T.; Roedder, A.; Lloyd, S.D.; Wong, T.H.F.; Geiger, W.F.; and Becker, M. (1999) Performance of a Wetland System for Combined Sewer Overflow Treatment. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 874.
- Lim, C.H.W., and Lim, N.S. (1999) Urban Stormwater Collection for Portable Use. *Water Supply*. **17**, 3, 503.
- Lin, A.B.; Spengler, S.; and Babcock, R. Jr. (1999) Use of Boron Isotope Ratio as a Tracer For Reclaimed Wastewater in a Directly Recharged Aquifer. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Lintner, A.M., and Weersink, A. (1999) Endogenous Transport Coefficients: Implications for Improving Water Quality From Multi-Contaminants in an Agricultural Watershed. *Environmental & Resource Economics*. **14**, 2, 269.
- Liu, H.; Cleveland, T.G.; and Wang, K.H. (1999) Laboratory Tests of Erosion Dependence on Properties of Soils and Rainfall. *J. Am. Water Resour. Assoc.*, **35**, 1, 167.
- Livingston, E. (1999) Stormwater Reuse: An Added Benefit of Wet Detention Systems. *Comprehensive Stormwater & Aquatic Ecosystem Manage. Conf. Papers First South Pacific Conf.*, Auckland, New Zealand.
- Lloyd, S.D., and Wong, T.H.F. (1999) Particulate Associated Pollutants and Urban Stormwater Treatment. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1833.
- Loch, R.J.; Costantini, A.; Connolly, R.D.; Espigares, T.; Garthe, R.; Bubb, K.; and Sheridan, G.J. (1999) Sediment Generation and Management on Forest Roads: Measurements and Modeling. *Road and Transport Research*. **8**, 3, 89.
- Lockwood, J. G. (1999) Is Potential Evapotranspiration and Its Relationship With Actual Evapotranspiration Sensitive To

- Elevated Atmospheric CO₂ Levels? *Climatic Change*. **41**, 2, 193.
- Lodewyk, S.; Siu, K.L.; Hodgson, J.; and O'Connell, K. (1999) An Innovative Partnership To Finance Major Sanitary Trunk Sewer Extensions in Edmonton. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Loganathan, B.G.; Kannan, K.; Senthilkumar, K.; Sickel, J.; and Owen, D.A. (1999) Occurrence of Butyltin Residues in Sediment and Mussel Tissues from the Lowermost Tennessee River and Kentucky Lake, USA. *Chemosphere*. **39**, 14, 2401.
- Lohani, V.K.; Chana, J.; Kibler, D.F.; and Fedak, R. (1999) Model Choice and Basin Scale for Urbanizing Watersheds in Appalachian Headwater Areas. *ASCE 26th Annu. Conf. Water Resour. Plann. Manage. 1999 Annu. Conf. Environ. Eng.*, Tempe, AZ.
- Loke, E.; Rauch, W.; Carstensen, J.; and Harremoes, P. (1999a) A Methodology Overview for Water Quality Problems. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 665.
- Loke, E.; Arnbjerg-Nielsen, K.; and Harremoes, P. (1999b) Artificial Neural Networks and Grey-Box Modelling: A Comparison. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 72.
- Lorenz, U., and Weikopf, M. (1999) Optimization of Sewer Management by Utilization of the Cascades Technique in Combined Sewer System. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 387.
- Lorey, P., and Driscoll, C.T. (1999) Historical Trends of Mercury Deposition in Adirondack Lakes. *Environmental Science & Technology*. **33**, 5, 718.
- Loukas, A., and Quick, M.C. (1999) The Effect of Climate Change on Floods in British Columbia. *Nordic Hydrology*. **30**, 3, 231.
- Love, E., and Woolley, B. (1999) Environmentally Sustainable Stormwater Quality. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality. 50.

- Luce, C.H.; Tarboton, D.G.; and Cooley, K.R. (1999) Sub-grid Parameterization of snow distribution for an Energy and Mass Balance Snow Cover Model. *Hydrol. Processes*. **13**, 12-13
- Luk, K.C.; Ball, J.E.; and Shama, A. (1999) An Application of Hydroinformatic Tools for Forecasting the Spatial Distribution of Rainfall in an Urban Catchment. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 2194.
- Lundin, M.; Molander, S.; and Morrison, G.M. (1999) Set of Indicators for the Assessment of Temporal Variations In The Sustainability Of Sanitary Systems. *Water Sci. and Tech.*. **39**, 5, 235.
- Lung, W.S., and Sobek, R.G. (1999) Renewed use of BOD DO Models in Water Quality Management. *J. Water Resour. Plann. Manage.- ASCE*. **125**, 4, 222.
- Luo, H.R.; Smith, L.M.; Haukos, D.A.; and Allen, B.L. (1999) Sources of Recently Deposited Sediments in Play and Wetlands. *Wetlands*. **19**, 1, 176.
- Luyckx, G.; Vaes, G.; and Berlamont, J. (1999) Comparison Between the Separating Efficiency of an Improved High-side Weir Overflow and a Hydrodynamic Storm King™ Separator. *Water Sci. and Tech.*. **39**, 9, 177.
- Macdonald, K.; Jefferies, C.; and Dring, D. (1999) A Preliminary Assessment of the Efficiency of Stormwater Runoff Ponds in the Scottish Climate. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 882.
- Maeda, M., and Akiba M. (1999) Flow Regulating System Using Weir and Orifice in a Manhole. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1800.
- Magee, T.K.; Ernst, T.L.; Kentula, M.E.; and Dwire, K.A. (1999) Floristic Comparison of Freshwater Wetlands in an Urbanizing Environment. *Wetlands*. **19**, 3, 517.
- Maglionico, M. (1999) Dimensioning of CSO-Tanks Using Design Events. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 934.
- Maheepala, U.K., and Perera, B.J.C. (1999) Quality Assurance Checks for a Hydrologic Data Acquisition Program for Urban Stormwater Drainage Systems. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 –

- September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 2115.
- Maitland, D.; Phillips, B.C.; Goyen, A.G.; and Thompson, G.R. (1999) Integrated Modelling of Urban Drainage Systems Using XP-SW MM32. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1887.
- Makar, J., and Chagnon, N. (1999) Inspecting Systems for Leaks, Pits, and Corrosion. *Journal / American Water Works Association*. **91**, 7, 36.
- Maldonado, C.; Dachs, J.; and Bayona, J.M. (1999) Trialkylamines and Coprostanol as Tracers of Urban Pollution in Waters from Enclosed seas: The Mediterranean and Black Sea. *Environ. Sci. Technol.* **33**, 19, 3290.
- Mallin, M.A., Posey, M.H., Shank, G.C., McIver, M.R., Ensign, S.H., and Alphin, T.D. (1999) Hurricane effects on water quality and benthos in the Cape Fear Watershed: Natural and Anthropogenic Impacts. *Ecol. Applications*. **9**, 1, 350.
- Malmqvist, P.-A.; Larm, T.; Bennerstedt, K.; and Wranghede, A.-K. (1999) Sources of Pollutants Discharging to Lake Trekanten, Stockholm. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1736.
- Mangarella, P.; Drury, D.; Lee, C.C.; and Mattison, R. (1999) Evaluating the Cost Effectiveness of Retrofitting an Urban Flood Control Detention Basin for Stormwater Treatment. *Proc. National Conf. on Retrofit Opport. for Water Rec. Protect. in Urban Environ.*, Chicago, IL, EPA/625/C-99/001, U.S. EPA, Washington, D.C., 183.
- Mankin, K.R.; Koelliker, J.K.; and Kalita, P.K. (1999) Watershed and Lake Water Quality Assessment: An Integrated Modeling Approach. *J. Am. Water Resour. Assoc.* **35**, 5, 1069.
- Manoli, E., and Samara, C. (1999) Occurrence and Mass Balance of Polycyclic Aromatic Hydrocarbons in the Thessaloniki Sewage Treatment Plant. *J. Environ. Qual.* **28**, 1, 176.
- Marinaki, M.; Papageorgiou, ; and Messmer, A. (1999) Multivariable Regulator Approach to Sewer Network Flow Control. *J. Environ. Eng.*, **125**, 3, 267.
- Marine Pollution Bulletin (1999) US Watershed Management. *Mar. Pollut. Bull.* **38**, 3, 159.
- Markowitz, D.V.; Gsellman, P.; and Bronowsk, J. (1999) Thinking Outside the Pipe: Non-traditional Solutions for Water Quality Improvement. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Marks, D.; Domingo, J.; Susong, D.; Link, T.; and Garen, D. (1999) A Spatially Distributed Energy Balance Snowmelt Model

For Application In Mountain Basins. *Hydrol. Processes*. **13**, 12-13.

- Marques, M.; Verdejo, ?; Rabasso, J.M.; Alsina, ?; Vinolas, M.; Malgrat, ?; Bregolat, P. (1999) Use of Meteorological Radar in the Real Time Operation of the Sewers of Barcelona. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1855.
- Marsalek J., and Rochfort, Q. (1999) Toxicity of Urban Wet-weather Pollution Sources: Stormwater and CSOs. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1575.
- Marsalek, J.; Rochfort, Q.; Brownlee, B.; Mayer, T.; and Servos, M. (1999) Exploratory Study of Urban Run off Toxicity. *Water Sci. and Tech.*(G.B.), **39**, 12, 33.
- Marti, M. J.; Ballester, R.L.; Salamero, S.M.; and Malgrat, B.P. (1999) Optimised Global Control and Self-Calibrating Models for Real Time Sewer Management in Barcelona. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1863.
- Martin, D.; Bernier, M.; Sasseville, J.L.; and Charbonneau, R. (1999) Financial Evaluation of the Integration of Satellite Technology for Snow Cover Measurements at a Hydroelectric Plant (Utilization of Radarsat 1 in the La Grande river basin (Quebec)). *International Journal of Remote Sensing*. **20**, 10, 2033.
- Martin, T.L.; Kaushik, N.K.; Trevors, J.T.; and Whiteley, H.R. (1999) Review: Denitrification in temperate climate riparian zones. *Water, Air, Soil Pollut.* **111**, 1-4, 171.
- Martin, T.L.; Trevors, J.T.; and Kaushik, N.K. (1999) Soil microbial diversity, community structure and denitrification in a temperate riparian zone. *Biodiversity & Conservation*. **8**, 8, 1057.
- Martz, L.W., and Garbrecht, J. (1999) An Outlet Breaching Algorithm for the Treatment of Closed Depressions in a Raster DEM. *Computers & Geosciences*. **25**, 7, 835.
- Mashiah, G.; Slapp, B.; Tyas-Tunggal, H.; and Tyler, S. (1999) A New Approach to Stormwater Awareness – The Maclean Shire Experiment. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1158.

- Mason, C.F.; Norton, S.A.; Fernandez, I.J.; and Katz, L.E. (1999) Deconstruction of the Chemical Effects of Road Salt on Stream Water Chemistry. *J. Environ. Qual.*, **28**, 82.
- Mason, R.P.; Lawson, N.M.; Lawrence, A.L.; Leaner, J.J.; Lee, J.G.; and Sheu, G.R. (1999) Mercury in the Chesapeake Bay. *Marine Chemistry*. **65**, 1-2, 77.
- Mason, Y.; Ammana, A.A.; Ulrich, A.; and Sigg, L. (1999) Behavior of Heavy Metals, Nutrients, and Major Components during Roof Runoff Infiltration. *Environ. Sci. Technol.*, **33**, 10, 1588.
- Masuda, T., and Ichikawa, A. (1999) Evaluation of Dry-weather Flow and Pollutant Loads in a Japanese River Basin. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1697.
- Matheussen, B.V., and Thorolfsson, S.T. (1999) Simulation Errors Due to Insufficient Temporal Resolution in Urban Snowmelt Models. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 2107.
- Matlock, M.D.; Storm, D.E.; Smolen, M.D.; Matlock, M.E.; McFarland, A.M.S.; and Hauck, L.M. (1999) Development and Application of a Lotic Ecosystem Trophic Status Index. *Trans. ASAE*. **42**, 3, 651.
- Matsuda, S.; Kimura, K.; and Sato, M. (1999) Study for Storm Water Intake Structure and Accumulated Soil Removal System of Deep Underground Large Diameter Storm Water Tunnel Reservoir. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1201.
- Matsunaga, K.; Kawaguchi, T.; Suzuki, Y.; and Nigi, G. (1999) The Role of Terrestrial Humic Substances on the Shift of Kelp Community to Crustose Coralline Algae Community of the Southern Hokkaido Island in the Japan Sea. *J. Experimen. Marine Biol. Ecology*. **241**, 2, 193.
- Matsunaga, T.; Ueno, T.; Chandradjith, R.L.R.; Amano, H.; Okumura, M.; and Hashitani, H. (1999) Cesium-137 and Mercury Contamination in Lake Sediments. *Chemosphere*. **39**, 2, 269.
- Maul, R.S.; Holland, M.M.; Mikell, A.T.; and Cooper, C.M. (1999) Resilience of Forested Wetlands Located in the Southeastern United States: Demonstration of a Soil Perturbation Index. *Wetlands*. **19**, 1, 288.
- McAlister, T.; Taylor, A.; Rahman, K.; Weber, T.; Walden, W.; Pocock, J.; and Gibson, N. (1999) Total Catchment Stormwater Quality Management. *Water Quality Interna.* (MAY/JUN): 53.

- McCarthy, E.; Lenth, J.; and Flewelling, J. (1999) Evaluating Stormwater Treatment Technologies with a Statistical Sampling Approach. *Proceedings: AWRA's 1999 Annual Water Resources Conference - Watershed Management to Protect Declining Species*, December 1999, Seattle, W A. American Water Resources Association, 473.
- McCleary, R.B. (1999) A Stormwater Banking Alternative for Highway Projects. *Proc. National Conf. on Retrofit Opport. for Water Rec Protect. in Urban Environ.*, Chicago, IL, EPA/625/C-99/001, U.S. EPA, Washington, D.C., 100.
- McDonald, L.A., and Johns, G.M. (1999) Integrating Social Benefit Cost Accounting into Watershed Restoration and Protection Programs. *Journal of the American Water Resources Association*. **35**, 3, 579.
- McDonnell, J.; Rowe, L.; and Stewart, M. (1999) Combined Tracer-hydrometric Approach to Assess the Effect of Catchment Scale on Water Flow Path, Source and Age. *IAHS Publication (Int. Asso. c. of Hydrol. Sci.)*. 258: 265.
- McElroy, C.W. (1999) Water Quality Standards and Regulations in Palestinian Areas. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- McFarland, A.M.S., and Hauck, L.M. (1999) Relating Agricultural Land Uses to In-stream Stormwater Quality. *J. Environ. Qual.*. **28**, 3, 836.
- McGinnis, M.V.; Woolley, J.; and Gamman, J. (1999) Bioregional Conflict Resolution: Rebuilding Community in Watershed Planning and Organizing. *Environ. Manage.*. **24**, 1, 1.
- McIlhatton, T.D. (1999) Simulation of Erosion in Combined Sewers. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 643.
- McIntosh, J.; McDonnell, J.J.; and Peters, N.E. (1999) Tracer and Hydrometric Study of Preferential Flow in Large Undisturbed Soil Cores from the Georgia Piedmont, USA. *Hydrol. Processes*. **13**, 2, 139.
- McKillop, R.; Kouwen, N.; and Soulis, E.D. (1999) Modeling the Rainfall-runoff Response of a Headwater Wetland. *Water Resour. Res.*, **35**, 4, 1165.
- McKillop, R.; Kouwen, N.; and Soulis, E.D. (1999) Modeling the Rainfall-runoff Response of a Headwater Wetland. *Water Resources Research*, **35**, 4, 1165.
- McKinney, C., and Cookmeyer, L.F. (1999) Hurricane Preparedness or Surviving the Storm While Bailing. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.

- McLean, R.; Oswood, M.W.; Irons, J.G.; and McDowell, W.H. (1999) The effect of Permafrost on Stream Biogeochemistry: A case study of Two Streams in the Alaskan (USA) Taiga. *Biogeochemistry*. **47**, 3, 239.
- McMahon, G., and Cuffney, T.F. (1999) A Process for Characterizing Urban Land-use Intensity in Drainage Basins. *Proc. AWRA's 1999 Annual Water Resources Conference - Watershed Management to Protect Declining Species*, December 1999, Seattle, WA. American Water Resources Association, .257.
- McNitt, J., and Kepford, R. (1999) Developing a New Regulatory Paradigm to Address the Impacts of Diffuse Pollution Attributable to Agriculture. *Water Sci. Technol.* (G.B.). **39**, 12, 299.
- Mealey, M. (1999) CSO Controversy. *Civil Eng.*. **69**, 9, 38.
- Mehler, R., and Ostrowski, M.W. (1999) Comparison of the Efficiency of Best Stormwater Management Practices in Urban Drainage Systems. *Water Sci. and Tech.*. **39**, 9, 269.
- Mehlhorn, J., and Leibundgut, C. (1999) Use of Tracer Hydrological Time Parameters to Calibrate Baseflow in Rainfall-runoff Modelling. *IAHS Publication (Int. Assoc. of Hydrol. Sci.)*. 258: 119.
- Mehrotra, R. (1999) Sensitivity of Runoff, Soil Moisture and Reservoir Design to Climate Change in Central Indian River basins. *Climatic Change*. **42**, 4, 725.
- Meigh, J.R.; McKenzie, A.A.; and Sene, K.J. (1999) A Grid-based Approach to Water Scarcity Estimates for Eastern and Southern Africa. *Water Resour. Manage.*. **13**, 2, 85.
- Mendez, A.; Dillaha, T.A.; and Mostaghimi, S. 276, (1999) Sediment and Nitrogen Transport in Grass Filter Strips. *J. Am. Water Resour. Assoc.*. **35**, 4, 867.
- Mengis, M.; Schiff, S.L.; Harris, M.; English, M.C.; Aravena, R.; Elgood, R.J.; and MacLean, A. (1999) Multiple Geochemical and Isotopic Approaches for Assessing Ground Water NO_3^- Elimination in a Riparian Zone. *Ground Water*. **37**, 3, 448.
- Merlein, J., and Valentin, F. (1999) Hydraulic Conditions and Energy Loss in Submerged Manholes. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 2155.
- Merlin, G.; Di-Gioia, L.; and Goddon, C. (1999) Comparative Study of the Capacity of Germination and of Adhesion of Various Hydrocolloids used for Revegetalization by Hydroseeding. *Land Degradation & Development*. **10**, 1, 21.
- Merritt, L., and Wilkinson, M. (1999) Wastewater Collection Systems. *Water Environ. Res.*. **71**, 5, 557.
- Mertens, P. (1999) Environmental aspects of the Sambro-Meuse Poplar Culture. *Biomass Bioenergy*. **16**, 4, 275.
- Merz, B., and Bardossy, A. (1999) Development of a Simplified Process Oriented Rainfall Runoff Model. *Physics & Chemistry*

- Michael, J.L.; Webber, E.C.; Bayne, D.R.; Fischer, J.B.; Gibbs, H.L.; and Seesock, W.C. (1999) Hexazinone Dissipation in Forest Ecosystems and Impacts on Aquatic Communities. *Canadian Journal of Forest Research-Journal Canadien de la Recherche Forestiere*. **29**, 7, 1170.
- Miglioranza, K.S.B.; de Moreno, J.E.A.; Moreno, V.J.; Osterrieth, M.L.; and Escalante, A.H. (1999) Fate of Organochlorine Pesticides in Soils and Terrestrial Biota of "Los Padres" Pond Watershed, Argentina. *Environmental Pollution*. **105**, 1, 91.
- Mikkelsen, P.S.; Madsen, H.; Arnbjerg-Nielsen, K.; Rosbjerg, D.; and Horrendous, P. (1999) On the Selection of Historical Rainfall Series for Simulation of Urban Drainage. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 982.
- Miles, S.W.; Shirley, K.J.; Tarker, R.E. Jr.; and Dorn, J.L. (1999) How to Defensibly Document I/I Reduction: Two Carolina Success Stories. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Milina, J.; Saegrov, S.; Lei, J.; Konig, A.; Nilssen, O.; Ellingson, A.; Alex, J.; and Schilling, W. (1999a) Improved Interception of Combined Sewage in the Trondheim-Hovringen Wastewater System. *Water Sci. Technol.* (G.B.), **39**, 2, 159.
- Milina, J.; Saegrov, S.; Selseth, I.; Schilling, W.; and Markhus, E. (1999b) Effect of Urbanization on Storm Water Runoff. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1616.
- Millar, R.G. (1999) Analytical Determination of Pollutant Wash-off Parameters. *J. Environ. Eng.-ASCE*. **125**, 10, 989.
- Miller, M.E. (1999) Use of Historic Aerial Photography to Study Vegetation Change in the Negrito Creek Watershed, Southwestern New Mexico. *Southwestern Naturalist*. **44**, 2, 121.
- Miller, P.S., and Loucks, E.D. (1999) Detention Basin Release Rate Determination For Urbanizing Watersheds in St. Louis County Missouri, *ASCE 26th Annu. Conf. Water Resour. Plann Manage. 1999 Annu. Conf. Environ. Eng.*, Tempe, AZ.
- Moller, A.; Yde, L.; and Gustafsson, L-G. (1999) Standard Drainage Modeling Goes Online. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1919.
- Momen, B.; Zehr, J.P.; Boylen, C.W.; and Sutherland, J.W. (1999) Determinants of Summer Nitrate Concentration in a set of Adirondack Lakes, New York. *Water, Air, Soil Pollut.* **111**, 1-4, 19.

- Montes, R.M., and Quinones, R.A. (1999) The Effect of Rainfall and Runoff of the Bio-Bio and Itata Rivers on the Landings of the Clams *Protrorhaca thaca* and *Venus antiqua* in central-south Chile. *Revista Chilena de Historia Natural*. **72**, 1, 13.
- Montgomery, D.R. (1999) Process Domains and the River Continuum. *Journal of the American Water Resources Association*. **35**, 2, 397.
- Mooney, K.G.; Webber, P.J.; and Gallagher, T.W. (1999) A new Total Maximum Daily Load (TMDL) Model for the Delaware River. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Moorman, T.B.; Jaynes, D.B.; Camardella, C.A.; Hatfield, J.L.; Pfeiffer, R.L.; and Morrow, A.J. (1999) Water Quality in Walnut Creek Watershed: Herbicides in Soils, Subsurface Drainage, and Groundwater. *J. Environ. Qual.* **28**, 1, 35.
- Moramarco, T.; Fan, Y.; and Bras, R.L. (1999) Analytical Solution for Channel Routing with Uniform Lateral Inflow. *J. Hydraul. Eng.-ASCE*. **125**, 7, 707.
- Morgan, D.R.; Rangarajan, S.; and Ward, C.J.W. (1999) Regional Differences in the Application of the EPA/CSO Policy: Presumptive Approach. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Morita, M., and Yen, B.C. (1999) Study on Effective Rainfall of Urban Catchment Area Using Conjunctive Surface-Subsurface Flow Model. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 843.
- Morrill, J. (1999) Sound, Sewer Reach Truce. *InTech*. **46**, 7, 56.
- Morrison, I.K.; Cameron, D.A.; Foster, N.W.; and Groot, A. (1999) Forest Research at the Turkey Lakes Watershed. *Forestry Chronicle*. **75**, 3, 395.
- Morrow, B.J. (1999) Determination of Storage Volumes Using Advanced Modeling Techniques & Continuous Simulation to Meet New Regulatory Requirements for Sea Discharges in The North West of England. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Moser, B.; Sotir, R.B.; Nicholson, G.A.; and Rybel, V. 276, (1999) Corvallis Riverfront Enhancement Project Using Soil Bioengineering. *Proceedings: AWRA's 1999 Annual Water Resources Conference - Watershed Management to Protect Declining Species*, December 1999, Seattle, WA. American Water Resources Association, 389.
- Moulton, D.; Barbe', D.; McCorquodale, J.A.; and Haralampides, K. (1999) Transferability of NPDES Water Quality Parameters. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Moustafa, M.Z. (1999a) Analysis of Phosphorus Retention in Free-water Surface Treatment Wetlands. *Hydrobiologia*, **392**, 1, 41.

- Moustafa, M.Z. (1999b) Nutrient Retention Dynamics of the Everglades Nutrient Removal Project. *Wetlands*. **19**, 3, 689.
- Munevar, A., and Marino, M.A. (1999) Modeling Analysis of Ground Water Recharge Potential on Alluvial Fans Using Limited Data. *Ground Water*. **37**, 5, 649.
- Munoz-Carpena, R.; Parsons, J.E.; and Gilliam, J.W. (1999) Modeling Hydrology and Sediment Transport in Vegetative Filter Strips. *J. Hydrol.* **214**, 1-4, 111.
- Murdock, N.A. (1999) Rare and Endangered Plants and Animals of Southern Appalachian Wetlands. NCASI Technical Bulletin. **2**, 781, 372.
- Murphy, J.L.; Ring, J.D.; and Seiler, J.F. (1999) Pre-cast Tunnel is Cost Effective Option for CSO Storage Project. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Murphy, M.T., and Lokey, B. (1999) An Assessment of Urban Storm Water Quality Control in the Arid West: Best Management of Urban Storm Water or Urban Storm Water Polluters? *ASCE 26th Annu. Conf. Water Resour. Plann. Manage. 1999 Annu. Conf. Environ. Eng.*, Tempe, AZ.
- Murphy, T.J.; Siddique, M.; and Hazelwood, B. (1999) CSO Swirl Concentrator Impacts on Dissolved Oxygen Concentrations in the Anacostia River. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Murray, J.E.; Cave, K.A.; and Bryson, D.S. (1999) Wet Weather Control Demonstration Activities in Southeast Michigan: Some lessons Learned. *Water Sci. and Tech.* **39**, 12, 273.
- Murthy, S.; Sadick, T.; and McGrath, M. (1999) Evaluation of On-line Analysis of Ammonia, Nitrate and Orthophosphate at Blue Plains Wastewater Treatment Plant. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Musiaka, K.; Kubota, M.; Imbe, M.; Takano, N.; and Dan, T. (1999) Design Concept for Renewal of Hydrological Water Cycle in Urban Area. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 232.
- Myrmel, M.; Rimstad, E.; Wasteson, Y.; and Skjerve, E. (1999) Detection of Small Round Structured Viruses in Artificially Contaminated Water Using Filter Adsorption and Reverse Transcription Polymerase Chain Reaction. *International Journal of Food Microbiology*. **49**, 1-2, 85.
- NZWWA (1999) *Proceedings of First South Pacific Conference: Comprehensive Stormwater & Aquatic Ecosystem Management*, February 22 – 26, 1999, Auckland, New Zealand, ISBN 1-877134-18-X, The New Zealand Water and Wastes Association, Inc., Onehunga, Auckland, New Zealand.

- Nadelhoffer, K.; Downs, M.; Fry, B.; Magill, A.; and Aber, J. (1999) Controls on N retention and Exports in a Forested Watershed. *Environ. Monit. Assessmt.* **55**, 1, 187.
- Naden, P.S., and Cooper, D.M. (1999) Development of a Sediment Delivery Model for Application in Large River Basins. *Hydrol. Processes*. **13**, 7, 1011.
- Nagasaka, A., and Nakamura, F. (1999) The Influences of Land-use Changes on Hydrology and Riparian Environment in a Northern Japanese Landscape. *Landscape Ecology*. **14**, 6, 543.
- Nagle, G.N.; Fahey, T.J.; and Lassoie, J.P. (1999) Management of Sedimentation in Tropical Watersheds. *Environmental Management*. **23**, 4, 441.
- Nakabayashi, H.; Ishikawa, N.; and Kodama, Y. (1999) Radiative Characteristics in a Japanese Forested Drainage Basin During Snowmelt. *Hydrol. Processes*. **13**, 2, 157.
- Nakken, M. (1999) Wavelet Analysis of Rainfall-Runoff Variability Isolating Climatic from Anthropogenic Patterns. *Environmental Modelling & Software*. **14**, 4, 283.
- Nania, L.; Gomez, M.; Dolz, J. (1999) Numerical and Experimental Study of the Urban Storm Water Runoff in a Street Network. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 849.
- Nawang, W.M. (1999) Modelling of Stormwater Infiltration Trenches for Application Under Malaysian Conditions. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1911.
- Nawaz, N.R., and Adeloye, A.J. (1999) Evaluation of Monthly Runoff Estimated by a Rainfall-runoff Regression Model for Reservoir Yield Assessment. *Hydrol. Sci. J.-Journal des Sciences Hydrologiques*. **44**, 1, 113.
- Ndiritu, J.G., and Daniell, T.M. (1999a) Assessing Model Calibration Adequacy Via Global Optimisation. *Water SA*. **25**, 3, 317.
- Ndiritu, J.G., and Daniell, T.M. (1999b) Improved Genetic Algorithm for Continuous and Mixed Discrete-Continuous Optimization. *Engineering Optimization*. **31**, 5, 589.
- Nelson, C.J. (1999) Managing Nutrients Across Regions of the United States. *J. Anim. Sci.* **77**, Suppl 2, 90.
- Nelson, E. (1999) Sediment Budget of a Mixed-use, Urbanizing Watershed. *Proc. AWRA's 1999 Annual Water Resources Conference - Watershed Management to Protect Declining Species*, December 1999, Seattle, WA. American Water Resources Association, 469.

- Nelson, E.J.; Smemoe, C.M.; and Zhao, B. (1999) A GIS Approach to Watershed Modeling in Maricopa County, Arizona. *ASCE 26th Annu Conf. Water Resour. Plann. Manage. 1999 Annu. Conf. Environ. Eng.*, Tempe, AZ.
- Nelson, R.E., and Hsiung, P.H. (1999) Balancing Collection System Performance and System Maintenance. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Newhouse, W.R.; Maisch, F.E.; Bizzarri, R.E. (1999) Hydraulic Design Provides Low Maintenance CSO Floatables Control. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Newhouse, W.R.; Maisch, F.E.; Bizzarri, R.E.; and Sachdev, S.K. (1999) Joint Effort. *Civil Eng.* **69**, 9, 34.
- Newman, T.L.; Leo, W.M.; and Gaffoglio, R. (1999) A No Cost, Best Management Practice for Floatables Control in New York City. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Nguyen, V-T-V., and Nguyen, T-D. (1999) A Scaling Approach to Estimation of Short Duration Rainfall Extremes. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 913.
- Nielsen, S.B., and Elle, M. (1999) Momentum in Transformation of Technical Infrastructure. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1980.
- Nirel, P.M., and Revaclier, R. (1999) Assessment of Sewage Treatment Plant Effluents Impact on River Water Quality Using Dissolved Rb Sr Ratio. *Environ. Sci. Technol.* **33**, 12, 1996
- Nnadi, F.N.; Kline, F.X.; Wray Jr., H.L.; and Wanielista, M.P. (1999) Comparison of Design Storm Concepts using Continuous Simulation with Short Duration Storms. *J. Am. Water Resour. Assoc.* **35**, 1, 61.
- Noguchi, M.; Nishida, W.; and Park, W.B. (1999) Pollutant Runoff and its Effect on the Newly Constructed Regulatory Pond in a Bay. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1631.
- Noki, T.; Mase, T.; and Murata, K. (1999) Maintenance and Management Aspects of Stormwater Infiltration Systems. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1497.
- Norton, S.; Kahl, J.; Fernandez, I.; Haines, T.; Rustad, L.; Nodvin, S.; Scofield, J.; Strickland, T.; Erickson, H.; Wigington,

- P.; and Lee, J. (1999) The Bear Brook Watershed, Maine (BBWM), USA. *Environ. Monit. Assessmt.*, **55**, 1, 7.
- Norton, S.; Kahl, J.; and Fernandez, I. (1999) Altered Soil-Soil Water Interactions Inferred From Stream Water Chemistry at an Artificially Acidified Watershed at Bear Brook Watershed, Maine USA. *Environ. Monit. Assessmt.*, **55**, 97.
- Norton, L.T. (1999) The Gulf of Mexico Program: What It Is And Is Not. An overview of the Gulf of Mexico Program Relationship of the GMP to the Clean Water Action Plan Watershed and the National Estuary Program. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Novotny, V. (1999) Integrating Diffuse/Nonpoint Pollution Control and Water Body Restoration into Watershed Management. *J. Am. Water Resour. Assoc.*, **35**, 4, 717.
- Nowicki, B.L.; Requentina, E.; Van Keuren, D.; and Portnoy, J. (1999) The Role of Sediment Denitrification in Reducing Groundwater-Derived Nitrate Inputs to Nauset Marsh Estuary, Cape Cod, Massachusetts. *Estuaries*, **22**, 2A, 245.
- NRDC (1999) Report Hacks Long-Delayed Stormwater Rules. *Environ. Sci. Technol.*, **33**, 15, 311A.
- Nystrom, B.; Bjornsater, B.; and Blanck, H. (1999) Effects of Sulfonylurea Herbicides on Non-Target Aquatic Microorganisms - Growth Inhibition of Micro-Algae and Short-Term Inhibition of Adenine and Thymidine Incorporation in Periphyton Communities. *Aquatic Toxicology*, **47**, 1, 9.
- O'Brien, M.K.; Valverde, H.R.; Trembanis, A.C.; and Haddad, T.C. (1999) Summary of Beach Nourishment Activity along the Great Lakes' Shoreline 1955-1996. *J. Coastal Res.*, **15**, 1, 206.
- O'Connor, T.P.; Cigana, J.; and Fischer, D. A Protocol for Determining WWF Settling Velocities for Treatment Process Design Enhancement. *ASCE 26th Annu. Conf. Water Resour. Plann. Manage. 1999 Annu. Conf. Environ. Eng.*, Tempe, AZ.
- O'Connor, T.P.; Field, R.; Fischer, D.; Rovaneck, R.; Pitt, R.; Clark, S.; and Lama, M. (1999) Urban wet-weather flow. *Water Environment Research*, **71**, 5, 559.
- O'Loughlin GG. Robinson DK. (1999) The coming of quality, the recognition of urban stormwater pollution in Australia. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 315.
- O'Meara, J.; Murray, J.; and Ridgway, J. (1999) Restoration of an Urban Lake: the Newburgh Lake Project. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- O'Neal, J.S.; Watts, A.; Bolton, S.; and Sibley, T. (1999) Hydraulic and Biological Effects of Large Woody Debris and an Engineered Wood Alternative for Stream Channel Rehabilitation Projects. *Proc. AWRA's 1999 Annual Water Resources Conference - Watershed Management to Protect Declining Species*, December 1999, Seattle, WA. American Water

Resources Association, 405.

- O'Shea, M.L.; Borst, M.; Liao, D.; Yu, S.L.; and Earles, T.A. (1999) Constructed Wetlands for Stormwater Management. *ASCE 26th Annu. Conf. Water Resour. Plann. Manage. 1999 Annu. Conf. Environ. Eng.*, Tempe, AZ.
- Oberlin, G.E.; Shannon, J.P.; and Blinn, D.W. (1999) Watershed Influence on the Macroinvertebrate Fauna of Ten Major Tributaries of the Colorado River Through Grand Canyon, Arizona. *Southwestern Naturalist*. **44**, 1, 17.
- Odeal, E.J. (1999) Developing Future Wastewater Utility Leaders: the NEORSD Approach. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Ohroi, K., and Mitchell, M.J. (1999) Hydrological Flow Paths Controlling Stream Chemistry in Japanese Forested Watersheds. *Hydrol. Processes*. **13**, 6, 877.
- Ohroi, K.; Mitchell, M.J.; and Bischoff, J.M. (1999) Effect of Landscape Position on N Mineralization and Nitrification in a Forested Watershed in the Adirondack Mountains of New York. *Canadian Journal of Forest Research-Journal Canadien de la Recherche Forestiere*. **29**, 4, 497.
- Ojha, C.S.P.; Singh, K.K.; and Verma, D.V.S. (1999) Single-storm Runoff Analysis Using Z-T transform. *Journal of Hydrologic Engineering*. **4**, 1, 80.
- Oka, Y., and Nakamura, H. (1999) Simulation of Basin-scale Runoff Control by Storage and Infiltration Systems. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 571.
- Olenik, T.J. (1999) The Misuse of Hydrological Modeling in the Establishment of Stormwater Management Regulations. *ASCE 26th Annu. Conf. Water Resour. Plann. Manage. 1999 Annu. Conf. Environ. Eng.*, Tempe, AZ.
- Olivera, F., and Maidment, D. (1999) Geographic Information Systems (GIS)-Based Spatially Distributed Model For Runoff Routing. *Water Resour. Res.* **35**, 4, 1155.
- Olli, R. (1999) Matajoki (Rotten River) - Better Than Its Name (The First Finnish Urban Watershed Research). *Comprehensive Stormwater & Aquatic Ecosystem Manage. Conf. Papers First South Pacific Conf.*, Auckland, New Zealand.
- Olli, R. (1999) Matajoki (Rotten River) - Better than its Name (The First Finnish Urban Watershed Research). *Comprehensive Stormwater & Aquatic Ecosystem Manage. Conf. Papers First South Pacific Conf.*, Auckland, New Zealand.
- Ollivon, D.; Blanchard, M.; and Garban, B. (1999) PAH Fluctuations in Rivers in the Paris Region (France): Impact of Floods and Rainy Events. *Water, Air, Soil Pollut.* **115**, 1-4, 429.
- Orlandini, S.; Perotti, A.; Sfondrini, G.; and Bianchi, A. (1999) On the Storm Flow Response of Upland Alpine Catchments.

- Osterkamp, W.R. (1999) Runoff and Sediment Yield from Proxy Records: Upper Animas Creek Basin, New Mexico – Introduction. *USDA Forest Service Rocky Mountain Research Station Research Paper Rmrs.* (RP-18):1.
- Ota, J.J.; Nalluri, C.; and Perrusquia, G. (1999) Graded Sediment Transport – the Influence of Particle Size on Sediment Transport Over Deposited Loose Beds in Sewers. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 626.
- Otterpohl, R.; Albold, A.; and Oldenhurg, M. (1999) Source Control in Urban Sanitation and Waste Management: Ten Systems with Reuse of Resources. *Water Sci. and Tech.* **39**, 5, 153.
- Paasonen-Kivekas, M.; Koivusalo, H.; Karvonen, T.; Vakkilainen, P.; and Virtanen, J. (1999) Nitrogen Transport Via Surface and Subsurface Flow in an Agricultural Field. *IAHS Publication (Int. Assoc. of Hydrol. Sci.)*. 257: 163.
- Pagotto, C.; Bernard, N.; Bond, P.; Crosnier, J.; De Jong, S.P.; Semblat, L.; Zimmer, U.; and Raimbault, G. (1999) Runoff Pollution and Stormwater Infiltration. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 265.
- Pan, Y.D.; Stevenson, R.J.; Hill, B.H.; Kaufmann, P.R.; and Herlihy, A.T. (1999) Spatial Patterns and Ecological Determinants of Benthic Algal Assemblages in Mid-Atlantic Streams, USA. *Journal of Phycology*. **35**, 3, 460.
- Paniagua, A.; Kammerbauer, J.; Avedillo, M.; and Andrews, A.M. (1999) Relationship of Soil Characteristics to Vegetation Successions on a Sequence of Degraded and Rehabilitated Soils in Honduras. *Agriculture Ecosystems & Environment*. **72**, 3, 215.
- Papa, F.; Adams, B.J.; and Guo, Y.P. (1999) Detention Time Selection for Stormwater Quality Control Ponds. *Canadian J. Civil Eng.*, **26**, 1, 72.
- Parandekar, A., and Ranjithan, S.R. (1999) A GIS-Based Interactive Decision Making Tool for Watershed Management. *ASCE 26th Annu. Conf. Water Resour. Plann. Manage. 1999 Annu. Conf. Environ. Eng.*, Tempe, AZ.
- Parker, D.B.; Eisenhauer, D.E.; Schulte, D.D.; and Nienaber, J.A. (1999) Seepage Characteristics and Hydraulic Properties of a Feedlot Runoff Storage Pond. *Trans. ASAE*. **42**, 2, 369.
- Parlange, J-Y.; Hogarth, W.L.; Rose, C.W.; Sandler, G.C.; Hairsine, P.; and Lisle, I. (1999) Addendum to Unsteady Soil Erosion Model. *J. Hydrol. (Neth.)* . **217**, 1, 149.
- Paschka, M.G.; Ghosh, R.S.; and Dzombak, D.A. (1999) Potential Water-quality Effects from Iron Cyanide Anticaking Agents

- in Road Salt. *Water Environ. Res.* **71**, 6, 1235.
- Pasternack, G.B. (1999) Does The River Run Wild? Assessing Chaos in Hydrological Systems. *Adv. in Water Resour.* **23**, 3, 253.
- Patty, S.S.; Roth, N.; and Mountain, D. (1999) Maryland, the Power Plant Research Program, and the Chesapeake Bay watershed. *Sco. Total Environ.* **240**, 1-3, 171.
- Pavel, E.W.; Lopez, A.R.; Berry, D.F.; Smith, E.P.; Reneau, R.B.; and Mostaghimi, S. (1999) Anaerobic Degradation of Dicamba and Metribuzin in Riparian Wetland Soils. *Water Res. (G.B.)*. **33**, 1, 87.
- Pena, C. Jr. (1999) Facility Planning Program by the U.S. Section of the International Boundary and Water Commission for the Solution of Border Sanitation Problems. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Perkins, S.P., and Sophocleous, M. (1999) Development of a Comprehensive Watershed Model Applied to Study Stream Yield Under Drought Conditions. *Ground Water*. **37**, 3, 418.
- Perret, S., and Dorel, M. (1999) Relationships Between Land Use, Fertility and Andisol Behaviour: Examples From Volcanic Islands. *Soil Use Manage.* **15**, 3, 144.
- Perriello, J.C.; Geisser, D.F.; and Everett, C.R Jr. (1999) Biological Treatment of Stormwater Runoff Contaminated With De-icing Fluid Utilizing Aerobic Lagoons at Syracuse Hancock International Airport, New York. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Perrone, J., and Madramootoo, C.A. (1999) Sediment Yield Prediction Using AGNPS. *J. Soil & Water Conserv.* **54**, 1, 415.
- Perry, C.D.; Vellidis, G.; Lowrance, R.; and Thomas, D.L. (1999) Watershed-scale Water Quality Impacts of Riparian Forest Management. *J. Water Resour. Plann. Manage.- ASCE*. **125**, 3, 117.
- Persson, J.; Somes, N.L.G.; and Wong, T.H.F. (1999) Hydraulics Efficiency of Constructed Wetlands and Ponds. *Water Sci. Technol. (G.B.)*, **40**, 3, 291.
- Persson, L.B.B.; Morrison, G.M.; Roux, M.S.; Petterson, T.J.R.; Ellis, J.; and Rauch, S. (1999) Improved Assessment of Metal Concentrations in Storm water Runoff With a Passive Sampler. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1505.
- Peschke, G., and Sambale, C. (1999) Hydrometric Approaches to Gain a Better Understanding of Saturation Excess Overland Flow. *IAHS Publication (Int. Assoc. of Hydrol. Sci.)*. 258: 13.

- Pess, G.R., and Bilby, R.E. (1999) Stream-reach and Watershed-scale Variables and Salmonid Spawning Distribution and Abundance in the Puget Sound Region. *Proc. AWRA's 1999 Annual Water Resources Conference - Watershed Management to Protect Declining Species*, December 1999, Seattle, WA. American Water Resources Association, 397.
- Peters, N.E., and Donohue, R. (1999) Nutrient Concentrations and Fluxes in Tributaries to the Swan-Canning Estuary, Western Australia. *IAHS Publication (International Association of Hydrological Sciences)*. 257: 87.
- Peters, N.E., and Kandell, S.J. (1999) Evaluation of Stream Water Quality in Atlanta, Georgia, and the Surrounding Region (USA). *IAHS Publication (Int. Assoc. of Hydrol. Sci.)*. 259: 279.
- Petersen, M.M. (1999) A Natural Approach to Watershed Planning, Restoration and Management. *Water Sci. Technol.* (G.B.), **39**, 12, 347.
- Peterson, J.G. (1999) The Aurora Project: Community Watershed Partnerships in Action. Editors: McCabe, R.E., and Loos, S.E., *Transactions of the Sixty-Fourth North America Wildlife and Natural Resource Conference*. 336.
- Peterson, J.T., and Kwak, T.J. (1999) Modeling the Effects of Land Use and Climate Change on Riverine Smallmouth Bass. *Ecol. Applications*. **9**, 4, 1391.
- Petkovic, S.; Dragovic, N.; and Markovic, S. (1999) Erosion and Sedimentation Problems in Serbia. *Hydrol. Sci. J.-Journal des Sciences Hydrologiques*. **44**, 1, 63.
- Petruck, A.; Jaeger, D.; and Sperling, F. (1999) Dynamic Simulation of the Effects of Combined Sewage Overflow on Small Urban Streams. *Water Science and Technology*. **39**, 9, 235.
- Petterson, T.J.R. (1999) The Effects of Variations of Water Quality on the Partitioning of Heavy Metals in a Stormwater Pond. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1943.
- Petterson, T.J.R.; German, J.; and Svensson, G. (1999) Pollutant Removal Efficiency in Two Stormwater Ponds in Sweden. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 866.
- Pezzaniti, D.; Johnston, L.; and Argue, J.R. (1999) Road Surface Stormwater Drainage Hydraulics: New Design Information. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 754.
- Pfister, A., and Cassar, A. (1999) Use and Benefit of Radar Rainfall Data in an Urban Real Time Control Project. *Physics &*

- Philips, B.C.; Lawrence, A.I.; and Boon, B. (1999) City of Clarence (Tasmania) Stormwater Management Strategy. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 801.
- Phillips, B.M. (1999) Integrating Urban Design for Creek Restoration Projects. *ASCE 26th Annu. Conf. Water Resour. Plann. Manage. 1999 Annu. Conf. Environ. Eng.*, Tempe, AZ.
- Phillips, D.I. (1999) A New Litter Trap for Urban Drainage Systems. *Water Sci. Technol.* (G.B.), **39**, 2, 85.
- Phillips, J.D.; Golden, H.; Cappiella, K.; Andrews, B.; Middleton, T.; Downer, D.; Kelli, D.; and Padrick, L. (1999) Soil Redistribution and Pedologic Transformations in Coastal Plain Croplands. *Earth Surface Processes and Landforms*. **24**, 1, 23.
- Phillips, J.D.; Slaterry, M.C.; and Gares, P.A. (1999) Truncation and Accretion of Soil Profiles on Coastal Plain Croplands: Implications for Sediment Redistribution. *Geomorphology*. **28**, 1-2, 119.
- Phillips, P.J.; Wall, G.R.; Thurman, E.M.; Eckhardt, D.A.; and Vanhoesen, J. (1999) Metolachlor and Its Metabolites in Tile Drain and Stream Runoff in the Canajoharie Creek Watershed. *Environ. Sci. Technol.* **33**, 20, 3531.
- Picksley, J.W., and Deletic, A. (1999) Chapter 7: The Thermal Enrichment of Storm Runoff from Paved Areas - a Statistical Analysis. In: *New Applications in Modeling Urban Water Systems*. Monograph 7 in the series. W. James, Ed. Pub. by CHI, Guelph, Canada, 127.
- Piel, C.; Perez, I.; and Maytraud, T. (1999) Three Examples of Temporary Stormwater Catchments in Dense Urban Areas: A sustainable development approach. *Water Sci. Technol.* (G.B.), **39**, 2, 25.
- Pionke, H.B.; Gburek, W.J.; Schnabel, R.R.; Sharpley, A.N.; and Elwinger, G.F. (1999) Seasonal Flow, Nutrient Concentrations and Loading Patterns in Stream Flow Draining an Agricultural Hill-Land Watershed. *J. Hydrol.* (Neth.), **220**, 1-2, 62.
- Pisa, P.R.; Preti, F.; Rossi, M.; Ventura, F.; and Mazzanti, B. (1999) Water, Soil and Chemical Losses: Field Experiments and Model Analysis. *Water Sci. Technol.* (G.B.), **39**, 3, 93.
- Pitt, R. (1999) Chapter 4: Small Storm Hydrology and Why it is Important for the Design of Stormwater Control Practices. In: *New Applications in Modeling Urban Water Systems*. Monograph 7 in the series. W. James, Ed. Pub. by CHI, Guelph, Canada, 61.
- Pitt, R.; Robertson, B.; Barron, P.; Ayyoubi, A.; and Clark, S. (1999a) *Stormwater Treatment at Critical Areas: The Multi-Chambered Treatment Train (MCTT)*, EPA/600/R-99/017. U.S. Environmental Protection Agency, National Risk

Management Research Laboratory. Cincinnati, OH.

- Pitt, R.; Harrison, R.; Lantrip, J.; and Henry, C.L. (1999b) Infiltration Through Disturbed Urban Soils and Compost-Amended Soil Effects on Runoff Quality and Quantity. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Ponce, V.M., and Klabunde, A. (1999) Parking Lot Storage Modeling Using Diffusion Waves. *J. Hydrol. Eng.*, **4**, 4, 371.
- Porto, M.; Porto, R.L.L.; and Azevedo, L.G.T. (1999) A Participatory Approach to Watershed Management: The Brazilian system. *J. Am. Water Resour. Assoc.*, **35**, 3, 675.
- Post, D.A., and Jakeman, A.J. (1999) Predicting the Daily Streamflow of Ungauged Catchments in SE Australia by Regionalising the Parameters of a Lumped Conceptual Rainfall-Runoff Model. *Ecolog. Modelling*, **123**, 2-3, 91.
- Post, D.F.; Martin, E.S.; Simanton, J.R.; and Sano, E.E. (1999) Use of Hand-Held Radiometers to Evaluate the Cover and Hydrologic Characteristics of Semiarid Rangelands. *Arid Soil Resea. Rehabilitation*, **13**, 2, 201.
- Pote, D.H.; Daniel, T.C.; Nichols, D.J.; Sharpley, A.N.; Moore Jr., P.A.; Miller, D.M.; and Edwards, D.R. (1999) Relationship Between Phosphorus Levels in Three Ultisols and Phosphorus Concentrations in Run off. *J. Environ. Qual.*, **28**, 170.
- Prasad, T.D.; Gupta, R.; Prakash, S. (1999) Determination of Optimal Loss Rate Parameters and Unit Hydrograph. *J. Hydrol. Eng.*, **4**, 1, 83.
- Prato, T. (1999) Multiple Attribute Decision Analysis for Ecosystem Management. *Ecological Economics*, **30**, 2, 207.
- Prato, T., and Hajkowicz, S. (1999) Selection and Sustainability of Land and Water Resource Management Systems. *J. Am. Water Resour. Assoc.*, **35**, 4, 739.
- Pratt, C.J. (1999) Use of Permeable, Reservoir Pavement Constructions for Stormwater Treatment and Storage for Re-use [Review]. *Water Sci. Technol. (G.B.)*, **39**, 5, 145.
- Preau, G.T., and Ahmad, S.A. (1999) A Computerized Collection System Model – New Orleans’ Answer to the Present and the Future. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Prellop, J.A. (1999) Implementation of Offline Storage in an Urban Location for Control of Sanitary Sewer Overflows (SSOs). *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Preti, F. (1999) Overland Transport of Nitrate: Algorithms Validation. *Water Sci. Technol. (G.B.)*, **39**, 3, 77.
- Pretner, A.; Bettin, A.; Caielli, A.; Cecconi, G.; Cirello, P.; Orazio, C.; Ranieri, M.; Sainz, L.; Sandri, G.; Tomicic, B.; and Vento, S. (1999) Venice Pilot Study: Integrated Management of the Sewer System, Wastewater Treatment Plant and Venice Lagoon. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association

- for Hydraulic Research, and The International Association on Water Quality, 1536.
- Preusch, D.P., and Reza khani, M. (1999) Integrating Geographic Information Systems (GIS) and Watershed Modeling. *ASCE 26th Annu. Conf. Water Resour. Plann. Manage. 1999 Annu. Conf Environ. Eng.*, Tempe, AZ.
- Prevost, M.; Plamondon, A.P.; and Belleau, P. (1999) Effects of Drainage of a Forested Peatland on Water Quality and Quantity. *J. Hydrol. (Neth.)* . **214**, 1-4, 130.
- Prosser, I.P., and Abernethy, B. (1999) Increased Erosion Hazard Resulting from Log-Row Construction During Conversion to Plantation Forest. *For. Ecol. Manage.* **123**, 2-3, 145.
- Protopapas, A.L. (1999) Combined Sewer Overflow Abatement: The East River Project. *Water Resour. Manage.* **13**, 2, 133.
- Qian, S.S., and Anderson, C.W. (1999) Exploring Factors Controlling the Variability of Pesticide Concentrations in the Willamette River Basin Using Tree-Based Models. *Environ. Sci. Technol.* **33**, 19, 3332.
- Quinton, J., and Rodriguez, F. (1999) Impact of Live Barriers on Soil Erosion in the Pairumani Sub-Catchment, Bolivia. *Mountain Res. Dev.* **19**, 4, 292.
- Quirnbach, M.; Schultz, G.A.; and Frehmann, T. (1999) Use of Weather Radar for Combined Control of an Urban Drainage System and a Sewage Treatment Plant. *IAHS Publication (Int. Assoc. of Hydrol. Sci.)*. 259: 245.
- Raimbault, G.; Nadji, D.; and Gauthier, C. (1999) Storm water Infiltration and Porous Material Clogging. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1016.
- Rao, M.S.R.M.; Sharda, V.N.; Mohan, S.C.; Shrimali, S.S.; Sastry, G.; Narain, P.; and Abrol, I.P. (1999) Soil Conservation Regions for Erosion Control and Sustained Land Productivity in India. *J. Soil & Water Conserv.* **54**, 1, 402.
- Raoux, C.; Bayona, J.M.; Miquel, J.C.; Teyssie, J.L.; Fowler, S.W.; and Albaiges, J. (1999) Particulate Fluxes of Aliphatic and Aromatic Hydrocarbons in Near-shore Waters to the Northwestern Mediterranean Sea, and the Effect of Continental Runoff. *Estuarine Coastal & Shelf Science*, **48**, 5, 605.
- Rash, J.K., and Liehr, S.K. (1999) Flow Pattern Analysis of Constructed Wetlands Treating Landfill Leachate. *Water Sci. Technol. (G.B.)*, **40**, 3, 309.
- Rauch, S., and Morrison, G.M. (1999) Platinum Uptake by the Freshwater Isopod *Asellus aquaticus* in Urban Rivers. *Sci. Total Environ.* **235**, 1-3, 261.
- Rauch, S.; Morrison, G.M.; Motelica-Heino, M.; and Donard, O. (1999) Evaluation of Speciation, Transport and Ecological Risk of Palladium, Platinum and Rhodium in Urban Stormwater Systems. *Proc. the Eighth International Conference on*

- Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 202.
- Rauch, W.; Nielsen, H.B.; Hauger, M.; and Mikkelsen, P.S. (1999) Urban Drainage Management – An Integrated Assessment of Options. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1423.
- Rauch, W.; Thurner, N.; and Stegner, U. (1999) Performance Improvement of an Integrated Drainage System – An Alpine Case Study. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 2082.
- Rawn, D.F.K., and Muir, D.C.G. (1999) Sources of Chlorpyrifos and Dacthal to a Small Canadian Prairie Watershed. *Environ. Sci. Technol.*, **33**, 19, 3317.
- Rawn, D.F.K.; Halldorson, T.H.J.; Lawson, B.D.; and Muir, D.C.G. (1999) A Multi-Year Study of Four Herbicides in Air and Precipitation from a Small Prairie Watershed. *J. Environ. Qual.*, **28**, 898.
- Reda, A.L.L., and Beck, M.B. (1999) Simulation Model for Real-Time Decision Support in Controlling the Impacts of Storm Sewage Discharges. *Water Sci. and Technol. (G.B.)*, **39**, 9, 225.
- Reddy, K.J. (1999) Management of Groundwater Quality from Non-Point Source Pollution. *Proceedings: AWRA's 1999 Annual Water Resources Conference - Watershed Management to Protect Declining Species*, December 1999, Seattle, WA. American Water Resources Association, 537.
- Reed, S.C., and Giarrusso, S. (1999) Sequencing Operation Provides Aerobic Conditions in a Constructed Wetland. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Reese, A.J. (1999) Developing Technical Policy With Citizen Groups. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1706.
- Reggiani, P.; Hassanizadeh, S.M.; Sivapalan, M.; and Gray, W.G. (1999) A Unifying Framework for Watershed Thermodynamics: Constitutive Relationships. *Adv. in Water Resour.*, **23**, 1, 15.
- Rein, F.A. (1999) An Economic Analysis of Vegetative Buffer Strip Implementation - Case Study: Elkhorn Slough, Monterey Bay, California. *Coastal Management*, **27**, 4, 377.

- Reiser, R.G., and O'Brien, A.K. (1999) Pesticides in Streams in New Jersey and Long Island, New York, and Relation to Land Use. *US Geological Survey, National Water-Quality Assessment Program Long Island-New Jersey Study Unit*, WRIR 98-4261.
- Rejesus, R.M., and Hornbaker, R.H. (1999) Economic and Environmental Evaluation of Alternative Pollution-Reducing Nitrogen Management Practices in Central Illinois. *Agric. Ecosys. Environ.* **75**, 1-2, 41.
- Renschler, C.S.; Mannaerts, C.; and Dieckkruger, B. (1999) Evaluating Spatial and Temporal Variability in Soil Erosion Risk - Rainfall Erosivity and Soil Loss Ratios in Andalusia, Spain. *Catena*. **34**, 3-4, 209.
- Revitt, D.M.; Ellis, J.B.; and Llewellyn, N.R. (1999a) Herbicide Behaviour in the Runoff from an Urban Catchment. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 96.
- Revitt, M.; Shutes, B.; and Scholes, L. (1999b) Use of Constructed Wetlands for Reducing the Impacts of Urban Surface Runoff on Receiving Water Quality. *IAHS Publication (Int. Assoc. of Hydrol. Sci.)*. 259: 349.
- Reynolds, R.L.; Rosenbaum, J.G.; van Metre, P.; Tuttle, M.; Callender, E.; and Goldin, A. (1999) Greigite (Fe_3S_4) as an Indicator of Drought - The 1912-1994 Sediment Magnetic Record from White Rock Lake, Dallas, Texas, USA. *J. of Paleolimnology*. **21**, 2, 193.
- Rhoads, B.L., and Cahill, R.A. (1999) Geomorphological Assessment of Sediment Contamination in an Urban Stream System. *Applied Geochemistry*. **14**, 4, 459.
- Rhoads, B.L.; Wilson, D.; Urban, M.; and Herricks, E.E. (1999) Interaction Between Scientists and Nonscientists in Community-based Watershed Management: Emergence of the Concept of Stream Naturalization. *Environ. Manage.* **24**, 3, 297.
- Rice, R.M. (1999) Erosion on Logging Roads in Redwood Creek, Northwestern California. *J. Am. Water Resour. Assoc.* **35**, 5, 1171.
- Richman, T., and Bicknell, B. (1999) A Start at the Source: Site Planning and Design Guidance Manual for Storm Water Quality Protection, *ASCE 26th Annu. Conf. Water Resour. Plann. Manage. 1999 Annu. Conf. Environ. Eng.*, Tempe, AZ.
- Rick Walker, R.; Olsen, C.; Morin, M.; and Miller, B. (1999) Integration of SWMM and ARCVIEW GIS for Interactive Decision Support, *ASCE 26th Annu. Conf. Water Resour. Plann. Manage. 1999 Annu. Conf. Environ. Eng.*, Tempe, AZ.
- Riedel, G.F.; Sanders, J.G.; and Osman, R.W. (1999) Biogeochemical Control on the Flux of Trace Elements from Estuarine Sediments: Effects of Seasonal and Short-Term Hypoxia. *Marine Environ. Resear.* **47**, 4, 349.

- Rigby, E.H.; Boyd, M.J.; and VanDrie, R. (1999) Experiences in Developing the Hydrology Model: WBNM2000. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1374.
- Rijsberman, M.A., and van de Ven, F.H.M. (1999) Concepts and Approaches to Sustainable Development in Urban Water Management. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 42.
- Rinne, J.N., and Stefferud, J.A. (1999) Single Versus Multiple Species Management: Native Fishes in Arizona. *For. Ecol. Manage.* **114**, 2-3, 357.
- Riotte, J., and Chabaux, F. (1999) U-234/U-238 Activity Ratios in Freshwaters as Tracers of Hydrological Processes: The Strengbach Watershed (Vosges, France). *Geochimica et Cosmochimica Acta*. **63**, 9, 1263.
- Rippe, A.H.; Feroz, M.; and Buehler, F.S. (1999) Columbia Slough Consolidation Conduit Tunnel. *Geotechnical Special Publication Number 90*. 768.
- Risholt, L.P.; Schilling, W.; and Alex, J. (1999) Towards Integrated Pollution Based Real Time Control of the Wastewater System in Fredrikstad, Norway. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1562.
- Ristenpart, Erik (1999) Planning of Stormwater Management With a New Model for Drainage Best Management Practices. *Water Sci. and Tech.* **39**, 9, 253-260.
- Rivard G. Dupuis P. (1999) Criteria for Surface On-Site Detention Systems: A Reality Check. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 546.
- Robinson, D.E., and Mansingh, A. (1999) Insecticide Contamination of Jamaican Environment. IV. Transport of Residues From Coffee Plantations in the Blue Mountains to coastal waters in Eastern Jamaica. *Environ. Monit. Assessmt.* **54**, 2, 125.
- Robinson, D.K., and O'Loughlin, G.G. (1999) A Critical Review of the Development of Stormwater Management Practice in New South Wales, Australia. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1132.

- Roecker, D.F. Innovative & Alternative Capital Funding Techniques: Current Case Study Experiences. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Roesner, L.A. (1999) Urban Runoff Pollution - Summary Thoughts - The State-Of-Practice Today and for the 21st Century. *Water Sci. and Tech.* **39**, 12, 353.
- Roesner, L.A., and Brashear, R.W. (1999) Are BMP Criteria Really Environmentally Friendly. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality. 1366.
- Roll, R.R. (1999) Diagnosis and Restoration of Diminished Force Main Capacity. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Rooney, J.J., and Smith, S.V. (1999) Watershed Landuse and Bay Sedimentation. *J. Coastal Res.* **15**, 2, 478.
- Rose, J.; Hutcheson, M.S.; West, C.R.; Pancorbo, O.; Hulme, K.; Coopeman, A.; DeCesare, G.; Isaac, R.; and Screpetis, A. (1999) Fish mercury distribution in Massachusetts, USA lakes. *Environ. Toxicol. Chem.* **18**, 7, 1370.
- Ross, J., and Gilbert, R. (1999) Lacustrine Sedimentation in a Monsoon Environment: The Record from Phewa Tal, Middle Mountain Region of Nepal. *Geomorphology*. **27**, 3-4, 307.
- Rossi, L.; Slowinski, R.; and Susmaga, R. (1999) Application of the Rough Set Approach to Evaluate Stormwater Pollution. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1192.
- Rostum, J.; Baur, R.; Saegrov, S.; Horold, S.; and Schilling, W. (1999) Predictive Service-Life Models for Urban Water Infrastructure Management. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 594.
- Roy, S.; Norton, S.; Fernandez, I.; and Kahl, J. (1999) Linkages of P and Al Export at High Discharge at the Bear Brook Watershed in Maine. *Environ. Monit. Assessmt.*, **55**, 133.
- Rozan, T.F.; Benoit, G.; and Luther, G.W. (1999) Measuring Metal Sulfide Complexes in Oxidic River Waters with Square Wave Voltammetry. *Environmental Science & Technology*. **33**, 17, 3021.
- Rudnick, D.T.; Chen, Z.; Childers, D.L.; Boyer, J.N.; and Fontaine, T.D. (1999) Phosphorus and nitrogen inputs to Florida Bay: The Importance of the Everglades Watershed. *Estuaries*. **22**, 2B, 398.

- Rudra, R.P.; Dickinson, W.T.; Abedini, M.J.; and Wall, G.J. (1999) A Multi-tier Approach for Agricultural Watershed Management. *J. Am. Water Resour. Assoc.* **35**, 5, 1159.
- Ruhl, J.B. (1999) The (political) Science of Watershed Management in the Ecosystem Age. *J. Am. Water Resour. Assoc.* **35**, 3, 519.
- Rusch, K.A.; Guo, T.; Watson, R.E. Jr.; and Malone, R.F. (1999) The Use of a Marshland Upwelling System to Polish Coastal Dwelling Wastewater. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Rushforth, P.J.; Tait, S.J.; and Saul, A.J. (1999) Importance of Sediment Composition on Erosion of Organic Material from In-sewer Deposits. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 515.
- Rushton, B (1999) Low Impact Parking Lot Design Reduces Runoff and Pollutant Loads. *ASCE 26th Annu. Conf. Water Resour. Plann Manage. 1999 Annu. Conf. Environ. Eng.*, Tempe, AZ.
- Russell, E. (1999) Experimenting with Trenchless technology. *Water Eng. Manage.* **146**, 4, 18.
- Russell, R.C. (1999) Constructed Wetlands and Mosquitoes: Health Hazards and Management Options - An Australian perspective. *Ecol. Eng.* **12**, 1-2, 107.
- Ruta, G.S. (1999) Controlling Urban Wet Weather Flows: The Challenge Continues. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Rutenberg, E.; Uhlenbrook, S.; and Leibundgut, C. (1999) Spatial Delineation of Zones with the Same Dominating Runoff Generation Processes. *IAHS Publication (Int. Assoc. of Hydrol. Sci.)*. 258: 281.
- Sabbagh, G.J., and Fox, G.A. (1999) Statistical Method for Evaluation of a Water Table Management Model. *Trans. ASAE*, **42**, 3, 713.
- Saeki, K.; Houjoh, Y.; Inoyae, I.; Shinoda, Y.; Watanabe, S.; and Nakanishi, Y. (1999) Rehabilitation of the Water Cycle at the Basin of the Kanda River. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 522.
- Saffache, P.; Blanchart, E.; Hartmann, C.; and Albrecht, A. (1999) The Progression of the Outline of the Marin Bay Coastline (Martinique): Consequences of Anthropogenic Activity on Surrounding Watersheds. *Comptes Rendus de l'Academie des Sciences Serie II Fascicule A-Sciences de la Terre et des Planetes*. **328**, 11, 739.
- Safferman, S.I.; Nath, R.; and Saliba, A.J. (1999) Providing Moisture Passively to Enhance Start Up and Maintain Biofilm

- Activity in an Intermittently Loaded Reactor. *Journal of Environmental Science & Health Part A-Toxic/Hazardous Substances & Environmental Engineering*. **34**, 8, 1591.
- Sajikumar, N., and Thandaveswara, B.S. (1999) A Non-linear Rainfall-runoff Model Using an Artificial Neural Network. *J. Hydrol. (Neth.)*. **216**, 1-2, 32.
- Sakadevan, K., and Bavor, H.J. (1999) Nutrient Removal Mechanisms in Constructed Wetlands and Sustainable Water Management. *Water Sci. and Tech.*. **40**, 2, 121.
- Sakai, A.; Sumiyama, M.; Genyong, L.; and Shengping, Z. (1999) Estimation of Nonpoint Source Runoff From Urban Area and Its Control Measures. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 143.
- Sample, B.E., and Suter, G.W. (1999) Ecological risk assessment in a large river-reservoir: 4. Piscivorous wildlife. *Environ. Toxicol. Chem.*. **18**, 4, 610.
- Sanger, D.M.; Holland, A.E.; and Scott, G.I. (1999) Tidal Creek and Salt Marsh Sediments in South Carolina Coastal Estuaries: I. Distribution of trace metals. *Arch. Environ. Contam. Toxicol.*. **37**, 4, 445.
- Sansalone, J.J. (1999) Adsorptive Infiltration of Metals in Urban Drainage - Media Characteristics. *Sci. Total Environ.*. **235**, 1-3, 179.
- Sansalone, J.J. (1999) In-situ Performance of a Passive Treatment System for Metal Source Control. *Water Sci. Technol.* (G.B.), **39**, 2, 193.
- Sansalone, J.J., and Hird, J.P. (1999) A Passive Source Control Prototype For Heavy Metals Transported by Urban Storm Water. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Sanudo-Wilhelmy, S.A., and Gill, G.A. (1999) Impact of the Clean Water Act on the Levels of Toxic Metals in Urban Estuaries: The Hudson River Estuary Revisited. *Environ. Sci. Technol.*. **33**, 20, 3477.
- Sarikaya, H.Z.; Sevimli, M.F.; and Citil, E. (1999) Region-wide Assessment of the Land-based Sources of Pollution of the Black Sea. *Water Sci. Technol.* (G.B.), **39**, 8, 193.
- Sauer, T.J.; Daniel, T.C.; Moore Jr., P.A.; Coffey, K.P.; Nichols, D.J.; and West, C.P. (1999) Poultry Litter and Grazing Animal Waste Effects on Runoff Water Quality. *J. Environ. Qual.*, **28**, 860.
- Saul, A.J.; Houldsworth, J.K.; Meadowcroft, J.; Balmforth, D.J.; Digman, C.; Butler, D.; and Davies, J.W. (1999) Predicting Aesthetic Pollutant Loadings from Combined Sewer Overflows. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of

- Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 482.
- Savic, D.A.; Walters, G.A.; and Davidson JW. (1999) A Genetic Programming Approach to Rainfall-Runoff Modeling. *Water Resour. Manage.* **13**, 3, 219.
- Sawey, R.; Gerrity, D.; and West, R. (1999) Implementing Wet Weather Treatment Technology. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Schaefer, J.; Eckhardt, J.-D.; Berner, Z.A.; and Stueben, D. (1999) Time-Dependent Increase of Traffic-Emitted Platinum-Group Elements (POE) in Different Environmental Compartments. *Environmental Science and Technology*. **33**, 18, 3166.
- Schleiter, I.M.; Borchardt, D.; Wagner, R.; Dapper, T.; Schmidt, K.D.; Schmidt, H.H.; and Werner, H. (1999) Modelling water quality, bioindication and population dynamics in lotic ecosystems using neural networks. *Ecological Modelling*. **120**, 2-3, 271.
- Schlutter, F. (1999) Conceptual Model for Sediment Transport in Combined Sewer Systems. *Water Science and Technology*. **39**, 9, 39.
- Schmidt, J.; Von Werner, M.; and Michael, A. (1999) Application of the EROSION 3D Model to the CATSOP Watershed, The Netherlands. *Catena*. **37**, 3-4, 449-456.
- Schmitt, J.P.; Faure, D.; Badot, R.; and Phan, L. (1999) Sewage System Management Strategy to Reduce Rain Water Pollution Overflows. The Case Study of a Water Storm Basin in Nancy. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 395.
- Schmitt, T.G.; Wiese, J.; Leinweber, U.; and Welker, A. (1999) Effects of Source Control Measures in Urban Storm Water Management of Combined Sewer Systems. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1350.
- Schmugge, T.J., and Kustas, W.P. (1999) Radiometry at Infrared Wavelengths for Agricultural Applications. *Agronomie*. **19**, 2, 83.
- Scholes, L.N.L.; Shutes, R.B.E.; Revitt, D.M.; Purchase, D.; and Forshaw, M. (1999) The Removal of Urban Pollutants by Constructed Wetlands During Wet Weather. *Water Sci. Technol. (G.B.)*. **40**, 3, 333.
- Schowengerdt, R.W.; Nokes, G.; and Diebold, J. (1999) In Situ Bioreactors for Treatment of Ongoing Petroleum Spills at Locomotive Fueling and Service Areas. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New

Orleans, LA.

- Schroedel, R.B., and Boerger, M. (1999) How to Turn Administrative Orders Into Compliance And Funding: the Watertown, South Dakota Story. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA..
- Schroedel, R.B.; Sherman, R.; McCarty, G.; and Doran, M. (1999) Development of a Watershed Partnership – A Case History. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Schueler, T.; Claytor, R.; Caraco, D.; and Zielinski, J. (1999) Better Site Design as a Stormwater Management Practice. *Comprehensive Stormwater & Aquatic Ecosystem Manage. Conf. Papers First South Pacific Conf.*, Auckland, New Zealand.
- Schultz, N.U.; Wood, D.M.; Adderly, V.; and Bennett, D. (1999) RDI/I Quantification Research Results. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Schutze, M., and Einfalt, T. (1999) Off-line Development of RTC Strategies – A General Approach and the Aachen Case Study. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 410.
- Schutze, M.; Butler, D.; and Beck, M.B. (1999) Synopsis – A Tool for the Development and Simulation of Real-Time Control Strategies for the Urban Wastewater System. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1847.
- Schwartz, S.S., and Naiman, D.Q. (1999) Bias and Variance of Planning Level Estimates of Pollutant Loads. *Water Resour. Res.* **35**, 11, 3475
- Schwesig, D.; Ilgen, G.; and Matzner, E. (1999) Mercury and Methylmercury in Upland and Wetland Acid Forest Soils of a Watershed in NE-Bavaria, Germany. *Water, Air, Soil Pollut.* **113**, 1-4, 141.
- Scott, H.D., and Udouj, T.H. (1999) Spatial and Temporal Characterization of Land-use in the Buffalo National River Watershed. *Environmental Conservation*. **26**, 2, 94.
- Scott, P.; Santos, R.; and Argue, J.R. (1999) Performance, Environmental and Cost Comparisons of Onsite Detention (OSD) and Onsite Retention (OSR) in Re-developed Residential Catchments, *Water Sci. Technol.* (G.B.), **39**, 2, 33.
- Secord, A.L.; McCarty, J.P.; Echols, K.R.; Meadows, J.C.; Gale, R.W.; and Tillitt, D.E. (1999) Polychlorinated Biphenyls and 2,3,7,8-Tetrachlorodibenzo-p-Dioxin Equivalents in Tree Swallows from the Upper Hudson River, New York State, USA. *Environ. Toxicol. Chem.* **18**, 11, 2519.

- See, L., and Openshaw, S. (1999) Applying Soft Computing Approaches to River Level Forecasting. *Hydrol. Sci. J.-Journal des Sciences Hydrologiques*. **44**, 5, 763.
- Seggelke, K.; Obenaus, F.; and Rosenwinkel, K.H. (1999) Dynamic Simulation of a Low Loaded Trickling Filter for Nitrification. *Water Sci. Technol.* (G.B.), **39**, 4, 163.
- Seigneur, C.; Lohman, K.; Pai, P.; Heim, K.; Mitchell, D.; and Levin, L. (1999) Uncertainty Analysis of Regional Mercury Exposure. *Water, Air, Soil Pollut.* **112**, 1-2, 151.
- Semadeni-Davies, A.F., and Bengtsson, L. (1999) Water Balance of a Sub-arctic Town. *Hydrol. Processes*. **13**, 12-13, 1871
- Sempre-Torres, D.; Corral, C.; Raso, J.; and Malgrat, P. (1999) Use of Weather Radar for Combined Sewer Overflows Monitoring and Control. *J. Environ. Eng.*, **125**, 4, 372.
- Senbeta, D.A.; Shamseldin, A.Y.; and O'Connor, K.M. (1999) Modification of the Probability-Distributed Interacting Storage Capacity Model. *J. Hydrol.* (Neth.), **224**, 3-4, 149.
- Serrano, L.; Burgos, M.D.; Diaz-Espejo, A.; and Toja, S. (1999) Phosphorus Inputs to Wetlands Following Storm Events after Drought, *Wetlands*, **19**, 2, 318.
- Servais, P.; Seidl, M.; and Mouchel, J-M. (1999) Comparison of Parameters Characterizing Organic Matter in a Combined Sewer During Rainfall Events and Dry Weather. *Water Environ. Res.* **71**, 4, 408.
- Shafer, M.M.; Overdier, J.T.; Phillips, H.; Webb, D.; Sullivan, J.R.; and Armstrong, D.E. (1999) Trace Metal Levels and Partitioning in Wisconsin rivers. *Water, Air, Soil Pollut.* **110**, 3-4, 273.
- Shamblen, R., and Lauria, J. (1999) Leveraging Utilities Water Quality Monitoring Data for Nonpoint Source Pollution BMP Funding and Implementation. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Shanley, J.B., and Chalmers, A. (1999) Effect of Frozen Soil on Snowmelt Runoff at Sleepers River, Vermont. *Hydrol. Processes*. **13**, 12-13, 1843.
- Sharma, K.D., Joshi, N.L.; Singh, H.P.; Bohra, D.N.; Kalla, A.K.; and Joshi, P.K. (1999) Study on the Performance of Contour Vegetative Barriers in an arid Region Using Numerical Models. *Agricul. Water Manage.* **41**, 1, 41.
- Sharma, U.C. (1999) Loss of Nitrogen Through Leaching and Runoff from Two Potato Land-Use Systems on Different Soils. IAHS Publication (International Association of Hydrological Sciences). 257: 27.
- Sharpin, M.; Barter, S.; and Csanki, S. (1999) Stormwater Management in New South Wales, Australia. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 2006.

- Sharpley, A. (1999) Agricultural Phosphorus, Water Quality, and Poultry Production: Are They Compatible? *Poultry Science*. **78**, 5, 660.
- Sharpley, A.N.; Gburek, W.J.; Folmar, G.; and Pionke, H.B. (1999) Sources of Phosphorus Exported from an Agricultural Watershed in Pennsylvania. *Agricul. Water Manage.*, **41**, 2, 77.
- Shatwell T. Cordery I. (1999) Nutrient storage in urban wetlands. *IAHS Publication (Int. Assoc. of Hydrol. Sci.)*. 259: 339.
- Shaver, E. (1999a) Low Impact Development for Stormwater Management. *Comprehensive Stormwater & Aquatic Ecosystem Manage. Conf Papers First South Pacific Conf.*, Auckland, New Zealand.
- Shaver, E. (1999b) Sand Filter Overview and Design. *Comprehensive Stormwater & Aquatic Ecosystem Manage. Conf. Papers First South Pacific Conf.*, Auckland, New Zealand.
- Shaw, Y.L.; Earles, A.; and Fitch, G.M. (1999) Field Monitoring of Constructed Wetlands Receiving Highway Runoff. *Comprehensive Stormwater & Aquatic Ecosystem Manage. Conf. Papers First South Pacific Conf.*, Auckland, New Zealand.
- Shelton, M.L. (1999) Climate Change and Future Hydroclimate for the Upper Crooked River, Oregon. *Physical Geography*. **20**, 1, 14.
- Shen, J.; Chang, J.; and Gong, N. (1999) Fuzzy Stormnet: Fuzzy Neural Network for Flow Estimation in Sewer Systems During Wet Weather. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Shentsis, I.; Meirovich, L.; Ben-Zvi, A.; and Rosenthal, E. (1999) Assessment of Transmission Losses and Groundwater Recharge from Runoff Events in a Wadi Under Shortage of data on Lateral Inflow, Negev, Israel. *Hydrological Processes*. **13**, 11, 1649.
- Sherif, M.M., and Singh, V.P. (1999) Effect of Climate Change on Sea Water Intrusion in Coastal Aquifers. *Hydrol. Processes*. **13**, 8, 1277.
- Sherrell, R.M., and Ross, J.M. (1999) Temporal Variability of Trace Metals in New Jersey Pinelands Streams: Relationships to Discharge and pH. *Geochimica et Cosmochimica Acta*. **63**, 19-20, 3321.
- Shiba, S.; Hirata, Y.; and Yagi, S. (1999) Acid Cloud Droplet Formed by Condensation of Atmospheric Water Vapor as Pollution Source of Urban Runoff. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1528.
- Shibata, T. (1999) Concentration of Non-Point Pollution by Sustainable BMP. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The

- Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 129.
- Shiferaw, B., and Holden, S. (1999) Soil Erosion and Smallholders' Conservation Decisions in the Highlands of Ethiopia. *World Dev.* **27**, 4, 739.
- Shigemitsu, S., and Hiratsuka, A. (1999) Relationship Between Benthic Chlorophyta and Water Quality in Urban Stream. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 113.
- Shinoda, Y.; Hasegawa, T.; and Fujiura, S. (1999) Application of the Overseas Urban Storm Drainage Simulation Models to Japan. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1784.
- Shiomi, T. (1999) Measures Against Combined Sewer Overflow (CSO) in Osaka City. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 2042.
- Shirmohammadi, A.; Gustafson, A.; Montas, H.; and Searing, M. (1999) Critical Pollution Areas Within a Watershed: A GIS and Indexing Strategy. *Work Sciences in Sustainable Agriculture*. 418.
- Sidle, W.C., and Lee, P.Y. (1999) Urban Stormwater Tracing with the Naturally Occurring Deuterium Isotope. *Water Environment Research*. **71**, 6, 1251.
- Sidorchuk, A. (1999) Dynamic and Static Models of Gully Erosion. *Catena*. **37**, 3-4, 401.
- Siegel, J.P., and Novak, R.J. (1999) Duration of Activity of the Microbial Larvicide VectoLex CG (R) (*Bacillus sphaericus*) in Illinois catch basins and waste tires. *Journal of the American Mosquito Control Association*. **15**, 3, 366.
- Sieker, H.; Banderhmann, S.; and Zimmerman, U. (1999) Geographical Information Systems Used as a Tool for Decentral Stormwater Management. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1671.
- Simon, M., and Terfruchte, F. (1999) Experience with Infiltration Techniques as Compared to Conventional Solutions: A Case Study. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for

- Hydraulic Research, and The International Association on Water Quality, 1474.
- Simon, T.P., and Stewart, P.M. (1999) Structure and Function of Fish Communities in the Southern Lake Michigan Basin with Emphasis on Restoration of Native Fish Communities. *Natural Areas Journal*. **19**, 2, 142.
- Sims, B.G.; Rodriguez, F.; Eid, M.; and Espinoza, T. (1999) Biophysical Aspects of Vegetative Soil and Water Conservation Practices in the Inter-Andean Valleys of Bolivia. *Mountain Res. Dev.*. **19**, 4, 282.
- Singer, R.; Weier, J.A.; Guire, E.P.; Amero, J.E.; Rizzo, E.; Kauffman, G.J.; and Wollaston, M.W. (1999) Quantification of Habitat Value to Select a Dam Alignment for a Water Quality Supply Reservoir in a Sensitive Watershed. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Singh, P.; Alagarswamy, G.; Hoogenboom, G.; Pathak, P.; Wani, S.P.; and Virmani, S.M. (1999) Soybean-Chickpea Rotation on Vertic Inceptisols II. Long-term Simulation of Water Balance and Crop Yields. *Field Crops Resear.* **63**, 3, 225.
- Singh, R.; Subramanian, K.; and Refsgaard, J.C. (1999) Hydrological Modelling of a Small Watershed Using MIKE SHE for Irrigation Planning. *Agricul. Water Manage.*. **41**, 3, 149.
- Skaugen .T. (1999) Estimating the Mean Areal Snow Water Equivalent by Integration in Time and Space. *Hydrol. Processes*. **13**, 12-13, 2051
- Skillings, T.E. (1999) Water Reuse: the Wave of the Future. *Proc. AWRA's 1999 Annual Water Resources Conference - Watershed Management to Protect Declining Species*, December 1999, Seattle, WA. American Water Resources Association, 481.
- Skinner, L.; de Peyster, A.; and Schiff, K. (1999) Developmental Effects of Urban Storm Water in Medaka (*Oryzias latipes*) and Inland Silverside (*Menidia beryllina*). *Arch. Environ. Contam. Toxicol.*. **37**, 2, 227.
- Skipworth, P.S.; Tait, S.J.; and Saul, A.J. (1999) Erosion of Sediment Beds in Sewers: Model Development. *J. Environ. Eng.*. **125**, 6, 566
- Skjelhaugen, O.J. (1999) Closed System for Local Reuse of Blackwater and Food Waste, Integrated with Agriculture. *Water Sci. and Tech.*. (G.B.), **39**, 5, 161
- Slack, J., and Freedman, P. (1999) Groundtruthing SSO Abatement Programs. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Slocum, T.; Ouy, N.S.; and Ouang, N.H. (1999) New Environmental Protection Standards for Viet Nam's Coal Industry. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Smit, R.; Bragg, O.M.; Ingram, H.A.P. (1999) Area Separation of Streamflow in an Upland Catchment with Partial Peat Cover. *J. Hydrol. (Neth.)*. **219**, 1, 46-55

- Smith, A.A. (1999) Integrating Simulation and Design for Stormwater Management. *Water Sci. and Tech.* **39**, 9, 261
- Smullen, J.T.; Shallcross, A.L.; and Cave, K.A. (1999) Updating the U.S. Nationwide Urban Runoff Quality Data Base. *Water Sci. and Tech.*, (G.B.), **39**, 12, 9.
- Sneve, M.A.; Worley, S.K.; and Ratliff, G.D. (1999) Pretreatment Performance Measures in a Watershed-based Management System. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Soeda, S.; Kim, S.; and Suzuki, H. (1999) Control of Effluent Pollutant Load Through Improvement of Storm-Water Pump Operation Method – Immediate Improvement of Combined Sewers: Case of Japan. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1247.
- Soerens T.S. Nelson M.A. Spooner J. Optimum sampling intervals for calculating pollutant loads in streams. In: *Proceedings of the Water Environment Federation's 72nd Annual Conference and Exposition*, October 9 – 13, 1999, New Orleans, LA. Water Environment Federation, Alexandria, VA. 1999.
- Soerens, T.S.; Nelson, M.A.; and Spooner, J. (1999) Optimum Sampling Intervals for Calculating Pollutant Loads in Streams. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Sonoda, K.; Walker, C.E.; and Yeakley, J.A. (1999) Correlations Between Landuse and Nutrient Inputs to an Urbanizing Oregon stream. *Proc. AWRA's 1999 Annual Water Resources Conference - Watershed Management to Protect Declining Species*, December 1999, Seattle, WA. American Water Resources Association, 441.
- Sophodeous, M.A.; Koelliker, J.K.; Govindaraju, R.S.; Birdie, T.; Ramireddygar, S.R.; and Perkins, S.P. (1999) Integrated Numerical Modeling for Basin-Wide Water Management: The Case of the Rattlesnake Creek Basin in South-Central Kansas. *J. Hydrol. (Neth.)* . **214**, 1-4, 179.
- Soto-Galera, E.; Paulo-Maya, J.; Lopez-Lopez, E.; Serna-Hernandez, J.A.; and Lyons, J. (1999) Change in Fish Fauna as Indication of Aquatic Ecosystem Condition in Rio Grande de Morelia-Lago de Cuitzeo Basin, Mexico. *Environ. Manage.* . **24**, 1, 133
- Soulsby, C.; Malcolm, R.; Ferrier, R.C.; Helliwell, R.C.; and Jenkins, A. (1999) Seasonal Hydrology of Oxygen-18 in the Allt a' Mharcaidh, Scotland: Implications for Water Movement and Residence Times. *IAHS Publication (Int. Assoc. of Hydrol. Sci.)*. 258: 127.
- Spillett, P. (1999) Thames Water – Protecting Endangered Species in the Urban Environment. *Proc. AWRA's 1999 Annual Water Resources Conference - Watershed Management to Protect Declining Species*, December 1999, Seattle, WA. American Water Resources Association, 485.

- Srinivas, A.; Rao, B.; and Rao, V.V .S.G. (1999) Recharge Process and A quifer Models of a Small Watershed. *Hydrol. Sci. J.- Journal des Sciences Hydrologiques*. **44**, 5, 681.
- Srinivasan, V.S.; De Araujo, P.J.; and De Oliveira, G.C. (1999) Studies of Erosion and Soil Loss in the Semiarid Northeastern Region of Brazil. *IAHS Publication (Int. Asso c. of Hydrol. Sci.)*. 257: 95
- St. Michelbach, G.W ., and Brombach, H. (1999) Nutrient Impact from CSOs on Lake Constance. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The *International Association for Hydraulic Research*, and The *International Association on Water Quality*. 474.
- Stachowiak, R.G. (1999) Application of High Rate Ballasted Flocculation Technology in Wet Weather Flow Treatment. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Stahre, P. (1999) 10 years experiences of sustainable storm water management in the city of Malmo , Sweden. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1087.
- Stark, S.L.; Nuckols, J.R.; and Rada, J. (1999) Using GIS to Investigate Septic System Sites and Nitrate Pollution Potential. *J. Environ. Health*. **61**, 8, 15
- Steinberg, P.E., and Clark, G.E. (1999) Troubled Water? Acquiescence, Conflict, and the Politics of Place in Watershed Management. *Political Geography*. **18**, 4, 477.
- Steiner, M.; Smith, J.A.; Burges, S.J.; Alonso, C.V.; and Darden, R.W. (1999) Effect of Bias Adjustment and Rain Gauge Data Quality Control on Radar Rainfall Estimation. *Water Resour. Res.*. **35**, 8, 2487.
- Stephens, M.L., and Kuczera, G. (1999) Testing the Time-Area Urban Run off Model at the Allotment Scale. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1391.
- Stephenson,, J.B.; Zhou, W.F.; Beck, B.F.; and Green, T.S. (1999) Highway Stormwater Runoff in Karst Areas - Preliminary Results of Baseline Monitoring and Design of a Treatment System for a Sinkhole in Knoxville, Tennessee. *Engineering Geology*, **52**, 1-2, 51.
- Stevens, K.; Garside, I.; and West, S. (1999) Project Storm - Environmental Impact Assessment Database for Auckland. *Comprehensive Stormwater & Aquatic Ecosystem Manage. Conf. Papers First South Pacific Conf.*, Auckland, New Zealand.

- Stewart, P.M.; Butcher, J.T.; and Gerovac, P.J. (1999) Diatom (*Bacillariophyta*) Community Response to Water Quality and Land Use. *Natural Areas Journal*. **19**, 2, 155.
- Stieber, P.; Bues, M.A.; and Grandjean, B.P. (1999) A Simple Approche d'une Periode de Retour de la Pollution en Hydrologie Urbaine, a Partir des Donnees de Pluviometrie. *Hydrol. Sci. J.* **44**, 2, 183.
- Stieglitz, M.; Hobbie, J.; Giblin, A.; and Kling, G. (1999) Hydrologic Modeling of an Arctic Tundra Watershed: Toward Pan-Arctic Predictions. *J. Geophys. Res. Atmos.* **104**, D22, 27507
- Stinson, M.K.; TafC, A.N.; and Frederick, R.M. (1999) Environmental Technology Verification (ETV) Program: Wet-Weather Flow/Source Water Protection. *ASCE 26th Annu. Conf. Water Resour. Plann. Manage. 1999 Annu. Conf. Environ. Eng.*, Tempe, AZ.
- Stinson, M.K.; Wojtenko, I.; and Field, R. (1999) High-rate Disinfection Techniques For Combined Sewer Overflow. *ASCE 26th Annu Conf. Water Resour. Plann. Manage. 1999 Annu. Conf Environ. Eng.*, Tempe, AZ.
- Stottlemeyer, R., and Toczydlowski, D. (1999) Nitrogen Mineralization in a Mature Boreal Forest, Isle Royale, Michigan. *J. Environ. Qual.* **28**, 2, 709
- Stottlemeyer, R., and Toczydlowski, D. (1999) Seasonal Relationships Between Precipitation, Forest Floor, and Streamwater Nitrogen, Isle Royale, Michigan. *Soil Sci. Soc. Am. J.* **63**, 2, 389
- Stout, W.L.; Sharpley, A.N.; Gburek, W.J.; and Pionke, H.B. (1999) Reducing Phosphorus Export from Croplands with FBC Fly Ash and FGD Gypsum. *Fuel*. **78**, 2, 175
- Stovin, V.R.; Saul, A.; Drinkwater, A.; and Clifforde, I. (1999) Field Testing CFD-Based Predictions of Storage Chamber Gross Solids Separation Efficiency. *Water Sci. and Tech.* **39**, 9, 161.
- Strange, E.M.; Fausch, K.D.; and Covich, A.P. (1999) Sustaining Ecosystem Services in Human-Dominated Watersheds: Biohydrology and Ecosystem Processes in the South Platte River Basin [Review]. *Environ. Manage.* **24**, 1, 39
- Stransky, D.; Handova, Z.; Koudelak, P.; and Krejcik, J. (1999) Sustainable Water and Wastewater Management Regional Scale Solution. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 34.
- Strauss, P.; Konecny, F.; and Blum, W.E.H. (1999) Rainfall Input Generation for the European Soil Erosion Model. *Hydrol. Earth Syst. Sci.*, **3**, 2, 213.
- Strecker, E.W. (1999) Considerations and Approaches for Monitoring the Effectiveness of Urban BMPs. *Proc. National Conf. on Retrofit Opport. for Water Rec. Protect. in Urban Environ.*, Chicago, IL, EPA/625/C-99/001, U.S. EPA, Washington,

- Strecker, E.W.; Quigley, M.M.; and Urbonas, B.R. (1999a) Determining Urban Stormwater BMP Effectiveness. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1079.
- Strecker, E.W.; Quigley, M.M.; and Urbonas, B.R. (1999b) Analysis of EPA's National Stormwater BMP Database. *ASCE 26th Annu. Conf Water Resour. Plann. Manage. 1999 Annu. Conf Environ. Eng.*, Tempe, AZ.
- Sturhan, N. (1999) Washington's Watershed Analysis – Results. *Proc. AWRA's 1999 Annual Water Resources Conference - Watershed Management to Protect Declining Species*, December 1999, Seattle, WA. American Water Resources Association, 213.
- Suarman, M; Argue, J.R.; and Pezzanti, D. (1999) A Lifespan of Permeable/Porous Paving Systems in Source A Control Technology: First Results. *Comprehensive Stormwater & Aquatic Ecosystem Manage. Conf. Papers First South Pacific Conf.*, Auckland, New Zealand.
- Suarman, M; Argue, J.R.; and Pezzanti, D. (1999) A Lifespan of Permeable/Porous Paving Systems in Source A Control Technology: First Results. *Comprehensive Stormwater & Aquatic Ecosystem Manage. Conf. Papers First South Pacific Conf.*, Auckland, New Zealand.
- Sueishi, T. (1999) Innovation of Storm Drainage System Based on Revised Literacy of Urban Hydrology. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1304.
- Sugiyama, H.; Kadoya, M.; Nagai, A.; and Lansey, K. (1999) Verification and Application of Regional Equations for the Storage Function Runoff Model. *J. Am. Water Resour. Assoc.* **35**, 5, 1147.
- Sugira, H.; Amano, N.; and Kametani, Y. (1999) Extraordinary Generation of Hydrogen Sulphide in Gravity Combined Sewerage System in Coastal Areas. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 297.
- Suita, Y.; Masuda, T.; and Ichikawa, A. (1999) Estimation of Runoff from Rainfall and Water Quality Using ISIS and GIS. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 2169.

- Sullivan, D., and Field, R. (1999) Overview of EPA's Wet-Weather Flow Research Program. *ASCE 26th Annu. Conf. Water Resour. Plann. Manage. 1999 Annu. Conf. Environ. Eng.*, Tempe, AZ.
- Sullivan, G.J.; McKinney, C.; and Kolenovsky, G.A. (1999) The New Orleans Drainage System Making Gravity for Water – a Unique Challenge. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Sullivan, T.J.; Charles, D.F.; Bernert, J.A.; McMartin, B.; Vache, K.B.; and Zehr, J. (1999) Relationship Between Landscape Characteristics, History, and Lakewater Acidification in the Adirondack Mountains, New York. *Water, Air, Soil Pollut.* **112**, 3-4, 407
- Sur, H.S.; Bhardwaj, A.; and Jindal, P.K. (1999) Some Hydrological Parameters for the Design and Operation of Small Earthen Dams in Lower Shiwaliks of Northern India. *Agricul. Water Manage.* **42**, 1, 111
- Suter, G.W. (1999) A Framework for Assessment of Ecological Risks from Multiple Activities. *Human & Ecol. Risk Assmt.* **5**, 2, 397.
- Svobodova, Z.; Dusek, L.; Hejtmánek, M.; Vykusova, B.; and Smid, R. (1999) Bioaccumulation of Mercury in Various Fish Species from Orlik and Kamyk Water Reservoirs in the Czech Republic. *Ecotoxicology & Environmental Safety*. **43**, 3, 231
- Sweeney, M.W.; English, Z.E.; Fitzgerald, P.B.; Sammons, D.R.; Gaus, L.A.; and Spalding, T.S. (1999) In Pursuit of a Cost-effective In-house Sampling and Analysis Program. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Swift, L.W., and Burns, R.G. (1999) The Three Rs of Roads - Redesign - Reconstruction – Restoration. *J. of For.* **97**, 8, 40
- Szafranski, M.J. (1999) The Ford Motor Company Environmental Management System – A Perspective on the ISO 14001 Certification Experience. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Szilagyi J. Parlange MB. (1999) Defining watershed-scale evaporation using a normalized difference vegetation index. *J. Am. Water Resour. Assoc.* **35**, 5, 1245.
- Szilagyi, J. (1999) On the Use of Semi-logarithmic Plots for Baseflow Separation. *Ground Water*. **37**, 5, 660
- Szilagyi, J., and Parlange, M.B. (1999) A geomorphology-based semi-distributed watershed model. *Adv. in Water Resour.* **23**, 2, 177.
- Sztainbok, P.; Boshier, C.; and Sickerdick, L. (1999) Recycled Water Aquifer Storage and Recovery: A South-Australian Experience. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Ta, C.T. (1999) Computational Fluid Dynamic Model of Storm Tank. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of

- Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1279.
- Tada, R.; Wada, Y.; and Miura, H. (1999) A Method of Storm Water Utilization with a Reservoir for Urban Storm Runoff Control. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1648.
- Tanaka, N., and Hvitved-Jacobsen, T. (1999) Anaerobic Transformations of Wastewater Organic Matter Under Sewer Conditions. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 288.
- Taylor, S.M. (1999) Receiving Water Quality Monitoring for Assessment of Storm Water Runoff Impacts, A Case Study. *ASCE 26th Annu. Conf. Water Resour. Plann. Manage. 1999 Annu. Conf. Environ. Eng.*, Tempe, AZ.
- Tekippe, T.R.; Stutz-McDonald, S.; and Matheson, R.J. (1999) Sodium Hypochlorite and Medium Pressure UV in Series: A Vallejo Case Study. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Telmer, K., and Veizer, J. (1999) Carbon Fluxes, pCO₂ and Substrate Weathering in a Large Northern River Basin, Canada: Carbon Isotope Perspectives. *Chemical Geology*. **159**, 1-4, 61
- Templeton, S.R., and Scherr, S.J. (1999) Effects of Demographic and Related Microeconomic Change on and Quality in Hills and Mountains of Developing Countries. *World Dev.* **27**, 6, 903.
- Teranes J.L. McKenzie J.A. Lotter A.F. Stable isotope response to lake eutrophication: Calibration of a high-resolution lacustrine sequence from Baldeggersee, Switzerland. *Limnology & Oceanography*. **44**(2):320-333, 1999.
- Teranes, J.L.; McKenzie, J.A.; and Lotter, A.F. (1999) Stable Isotope Response to Lake Eutrophication: Calibration of a High-Resolution Lacustrine Sequence from Baldeggersee, Switzerland. *Limnology & Oceanography*. **44**, 2, 320.
- Terayama, H.; Sakamoto, A.; Nakayama, Y.; Ueno, S.; Ishikawa, T.; and Saito, K. (1999) Stormwater Runoff Simulation Model with On-site Storage and its Application to Stormwater Drainage Planning. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 2099.
- Thackston, E.L., and Murr, A. (1999) CSO Control Project Modifications Based on Water Quality Studies. *J. Environ. Eng.* **125**, 10, 979.
- Thenard, V.; Ruban, G.; Joannis, C.; and Le Gal, C. (1999) Assessment of Level/Flow Formulae and Doppler Velocimetry for

- the Monitoring of Storm Overflows. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 746.
- Thieken, A.H.; Lucke, A.; Diekkruger, B.; and Richter, O. (1999) Scaling Input Data by GIS for Hydrological Modeling. *Hydrol. Processes*. **13**, 4, 611.
- Thierfelder, T. (1999a) Empirical/Statistical Modeling of Water Quality in Dimictic Glacial/Boreal Lakes. *J. Hydrol. (Neth.)*. **220**, 3-4, 186
- Thierfelder, T. (1999b) The Role of Catchment Hydrology in the Characterization of Water Quality in Glacial/Boreal Lakes. *J. Hydrol. (Neth.)*, **216**, 1-2, 1
- Thomas, N.S.; Templeman, A.B.; and Burrows, R. (1999) Optimal Pollution Control of Large Interceptor Sewer Systems. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1098.
- Thompson, J.W. (1999) The Poetics of Stormwater (Robert Murrain "Daylights" It And Uses It As The Focus Of A Garden in Portland, Oregon). *Landscape Architecture*. **89**, 1, 58
- Thorne, M. (1999) Clean Water Act Section 305(b): A Potential Avenue for Incorporating Economics into the TMDL Process. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Thorolfsson, S.T. (1999a) An Implementation of an Alternative Drainage System for Urban Areas, the Sandsli-System. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 705.
- Thorolfsson, S.T. (1999b) New Strategies in Stormwater-meltwater Management in the City of Bergen, Norway. *Water Sci. Technol. (G.B.)*, **39**, 2, 169.
- Thorolfsson, S.T., and Sekse, M. (1999) Towards Integrated Stormwater-Meltwater Management in the Coastal Part of Norway. *IAHS Publication (Int. Assoc. of Hydrol. Sci.)*. 259: 393.
- Thurston, K.A. (1999) Lead and Petroleum Hydrocarbon Changes in an Urban Wetland Receiving Stormwater Runoff. *Ecol. Eng.*, **12**, 3-4, 387.
- Thyer, M.; Kuczera, G.; and Bates, B.C. (1999) Probabilistic Optimization for Conceptual Rainfall-Runoff Models: A comparison of the Shuffled Complex Evolution and Simulated Annealing Algorithms. *Water Resour. Res.* **35**, 3, 767.

- Thyne, G.D.; Gillespie, J.M.; and Ostidick, J.R. (1999) Evidence for Interbasin Flow Through Bedrock in the Southeastern Sierra Nevada. *Geol. Soc. Am., Bull.* **111**, 11, 1600.
- Tierney, D.P.; Nelson, P.A.; Christensen, B.R.; and Watson, S.M.K. (1999) Predicted Atrazine Concentrations in the Great Lakes: Implications for Biological Effects. *J. Great Lakes Res.* **25**, 3, 455.
- Tilley, J.H.; Coates, A.; Wojcik, A.; Abustan, I.; and Ball, J.E. (1999) Gauging of Rapidly Varying Flows in Urban Streams. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1793.
- Timperley, M. (1999) Contaminant Bioavailability in Urban Stormwaters. *Comprehensive Stormwater & Aquatic Ecosystem Manage. Conf. Papers First South Pacific Conf.*, Auckland, New Zealand.
- Todd, A.H. (1999) Forests and Watershed Health. *J. Of For.* **97**, 2, A4
- Todorovic, Z.; Butler, D.; Maksimovic, C.; Pokrajac, D.; and Deletic, A. (1999) Simulation of Dynamic Processes for Sizing, Clogging, and Design Life Assessment of Stormwater Infiltration Facilities. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 998.
- Toetz, D.; Tang, L.T.; Storm, D.E.; Mihuc, T.; and Smolen, M.D. (1999) Assessment of Predictors for Stream Eutrophication Potential. *J. Am. Water Resour. Assoc.* **35**, 4, 853.
- Tokar, A.S., and Johnson, P.A. (1999) Rainfall-Runoff Modeling Using Artificial Neural Network. *J. Hydrol. Eng.* **4**, 3, 232.
- Tolokov, N.R. (1999) Assessment of Erosion Hazard by Rainstorm Indices. *Eurasian Soil Science*. **32**, 7, 808.
- Tonmanee, N., and Kanchanakool, N. (1999) Agricultural Diffuse Pollution in Thailand. *Water Sci. Technol. (G.B.)* **39**, 3, 61
- Toth, E.; Montanari, A.; and Brath, A. (1999) Real-Time Flood Forecasting Via Combined Use of Conceptual and Stochastic Models. *Physics & Chemistry of the Earth Part B-Hydrology Oceans & Atmosphere*. **24**, 7, 793.
- Traver, R.G. (1999) Stormwater Wetland BMP Performance - A Continuing Study. *ASCE 26th Annu. Conf. Water Resour. Plann. Manage. 1999 Annu. Conf. Environ. Eng.*, Tempe, AZ.
- Tredoux, G.; King, P.; and Cave, L. (1999) Managing Urban Wastewater for Maximising Water Resource Utilization. *Water Sci. Technol. (G.B.)*. **39**, 10-11, 353.
- Trembanis, A.C.; Pilkey, O.H.; and Valverde, H.R. (1999) Comparison of Beach Nourishment Along the US Atlantic, Great

- Lakes, Gulf of Mexico, and New England Shorelines. *Coastal Manage.* **27**, 4, 329.
- Trimble, C.A.; Hoenstine, R.W.; Highley, A.B.; Donoghue, J.F.; and Ragland, P.C. (1999) Baseline Sediment Trace Metals Investigation: Steinhatchee River Estuary, Florida, Northeast Gulf of Mexico. *Marine Georesour. Geotechnol.* **17**, 2-3, 187.
- Trott, L.A., and Alongi, D.M. (1999) Variability in Surface Water Chemistry and Phytoplankton Biomass In Two Tropical, Tidally Dominated Mangrove Creeks. *Marine Freshwater Resear.* **50**, 5, 451.
- Tsujimura, M.; Onda, Y.; Fujiwara, J.; and Ito, J. (1999) Hydro metric and Tracer Approaches to Investigate Rainfall-Runoff Processes in Mountainous Basins with Different Geologies. *IAHS Publication (Int. Assoc. of Hydrol. Sci.)*. 258: 159.
- Tsunoyama, Y.; Nakashima, N.; Kuroda, Y.; and Imbe, M. (1999) An Approach to Conservation Planning of Hydrological Cycle in an Urbanized River Basin. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 226.
- Tucker, D.W.; Struve, K.; and Bruinsma, D. (1999) The TMDL: A Roadmap Toward Watershed Management. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Tucker, K.A., and Burton, G.A. (1999) Assessment of Nonpoint-Source Runoff in a Stream Using In-Situ and Laboratory Approaches. *Environ. Toxicol. Chem.* **18**, 12, 2797.
- Tuteja, N.K., and Cunnane, C. (1999) A Quasi Physical Snowmelt Runoff Modelling System for Small Catchments. *Hydrol. Processes*. **13**, 12-13, 1961.
- Tyack, J.N., and Fenner, R.A. (1999) Computational Fluid Dynamics Modelling of Velocity Profiles Within a Hydrodynamic Separator. *Water Sci. and Tech.* **39**, 9, 169.
- Tychon, B.; Vander Borgh, P.; and De Backer, L.W. (1999) Water and Nitrogen Transfer Study Through Soils of a Small Agricultural Water Catchment. *Water Sci. Technol. (G.B.)*, **39**, 12, 69
- Uchida, T.; Kosugi, K.; and Mizuyama, T. (1999) Changes of Runoff Characteristics from Soil Pipes at Mountainous Watershed. *Nihon Ringakka i Shi/Journal of the Japanese Forestry Society*. **81**, 2, 101
- Uchida, T.; Kosugi, K.; and Mizuyama, T. (1999) Runoff Characteristics of Pipeflow and Effects of Pipeflow On Rainfall-Runoff Phenomena in a Mountainous Watershed. *J. Hydrol. (Neth.)*. **222**, 1-4, 18
- Udoudj, T.H., and Scott, H.D. (1999) Simulated Phosphorus and Sediment Loadings in Two Representative Subbasins of the Illinois River. *J. Soil Contamina.* **8**, 4, 509
- Ueda, Y.; Masuda, T.; and Ichikawa, A. (1999) A study on the Distributed Pollutant Load in Lake Biwa Using GIS. *Proc. the*

- Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1689.
- Uhlenbrook, S., and Leibundgut, C. (1999) Integration of Tracer Information into the Development of a Rainfall-Runoff Model. *IAHS Publication (Int. Assoc. of Hydrol. Sci.)*. 258: 93.
- Uhlenbrook, S.; Seibert, J.; Leibundgut, C.; and Rodhe, A. (1999) Prediction Uncertainty of Conceptual Rainfall-Runoff Models Caused by Problems in Identifying Model Parameters and Structure. *Hydrol. Sci. J.-Journal des Sciences Hydrologiques*. **44**, 5, 779.
- Urbonas, B.R. (1999) Design of a Sand Filter for Stormwater Quality Enhancement. *Water Environ. Res.*, **71**, 1, 102.
- US Environmental Protection Agency (1999) *Combined Sewer Overflows: Guidance for Monitoring and Modeling*. EPA-832-B-99-002, Office of Water, Washington, D.C.
- US Environmental Protection Agency (1999) *Guidance Manual for the Monitoring and Reporting Requirements of the NPDES Storm Water Multi-Sector General Permit*. EPA-833-B-99-001, Office of Water, Washington, D.C.
- US Environmental Protection Agency (1999) Releases Watershed Atlas. *J. Am. Water Works Assoc.* **91**, 1, 14.
- US Watershed Management. (1999) *Mar. Pollut. Bull.* **38**, 3, 159
- Vaes, G., and Berlamont, J. (1999a) Emission Predictions with a Multi-Linear Reservoir Model. *Water Sci. Technol.* (G.B.). **39**, 2, 9.
- Vaes, G., and Berlamont, J. (1999b) Impact of Rainwater Reuse on CSO Emissions [Review]. *Water Sci. and Tech.* **39**, 5, 57.
- Vaes, G., and Berlamont, I. (1999c) The effect of Changing Technology on Combined Sewer Design. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality. 1025.
- Vaes, G.; Luyckx, G.; De Cock, W.; and Berlamont, J. (1999) A Conceptual Model for the Impact Assessment of Storage Sedimentation Basins. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1415.
- Valero-Garces, B.L.; Navas, A.; Machin, J.; and Walling, D. (1999) Sediment Sources and Siltation in Mountain Reservoirs: A Case Study from the Central Spanish Pyrenees. *Geomorphology*. **28**, 1-2, 23
- Valverde, H.R.; Trembanis, A.C.; and Pilkey, O.H. (1999) Summary of Beach Nourishment Episodes on the US East Coast

Barrier Islands [Review]. *J. Coastal Res.* **15**, 4, 1100.

- van der Heijden, M. (1999) Does Anyone Have Any Phosphorus For Sale? The New York City Department of Environmental Protection's Pilot Phosphorus Offset Program: A Model For Responsible Development Within A Watershed. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- van der Werf, E.; Argue, J.R.; and Pezzaniti, D. (1999) Some Unexpected Results from Infiltration Tests in Shallow Clay Over Rock. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 555.
- van Geen, A., and Luoma, S.N. (1999) A Record of Estuarine Water Contamination from the Cd Content of Foraminiferal Tests in San Francisco Bay, California. *Marine Chemistry*. **64**, 1-2, 57.
- Van Herpe, Y.; Troch, P.A.; Callewier, L.; and De Troch, F.P. (1999) *Conceptual Model for Simulation of Catchment Scale Nitrate Transport*. IAHS Publication (International Association of Hydrological Sciences). 257: 181
- Van Luijtelea, H.; Weeke, H.; Otten, N.; and Pennekamp, H. (1999) Blue Polder Model: Towards Sustainable Water Management in Rietmolen. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 151.
- Van Luijtelea, I.H. (1999) Design Criteria, Flooding of Sewer Systems in 'Flat' Areas. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 538.
- van Mameren, H. (1999) The Design of Storage Sedimentation Tanks Using Rain Series Calculations, Including Sedimentation Efficiencies. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 942.
- Vazquez, J.; Gilbert, D.; Bellefleur, D.; and Grandjean, B. (1999a) Use of a Real Time Management Algorithm to Reduce Pollution Discharged into the Natural Environment. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1872.
- Vazquez, J.; Zug, M.; Bellefleur, D.; Grandjean, B.; and Scrivener, O. (1999b) Use of a Neural Network for the Application of

- the Muskingum Model to Sewer Networks. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1167.
- Veltri, P., and Pecora, S. (1999) Genetic Techniques to Optimize Urban Drainage Models. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1760.
- Venkatesan, M.I.; de Leon, R.P.; van Geen, A.; and Luoma, S.N. (1999) Chlorinated Hydrocarbon Pesticides and Polychlorinated Biphenyls in Sediment Cores from San Francisco Bay. *Marine Chemistry*. **64**, 1-2, 85.
- Vertessy, R.A., and Elsenbeer, H. (1999) Distributed Modeling of Storm Flow Generation in an Amazonian Rain Forest Catchment: Effects of model parameterization. *Water Resour. Res.*, **35**, 7, 2173.
- Villeneuve, E.; Field, R.; Stinson, M.K.; Jolicoeur, N.; Pleaul, M.; and Lavallee, P. (1999) Real-time Control (RTC) Alternatives to Maximize Inline Storage Capacity of Combined Sewer Overflow: The Quebec Urban Community Demonstration Site. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Vitoonpanyakij, C., and Okuno, N. (1999) Strategy of Flood Control in Bangkok. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 697.
- Vivekanandan, J.; Yates, D.N.; and Brandes, E.A. (1999) The Influence of Terrain on Rainfall Estimates from Radar Reflectivity and Specific Propagation Phase Observations. *J. Atmosph. Oceanic Technol.* **16**, 7, 837.
- Voinov, A., and Costanza, R. (1999) Watershed Management and the Web. *Journal of Environ. Manage.* **56**, 4, 231.
- Voinov, A.A.; Voinov, H.; and Costanza, R. (1999) Surface Water Flow in Landscape Models: 2. Patuxent watershed case study. *Ecological Modelling*. **119**, 2-3, 211
- Vollertsen, J., and Hvitved-Jacobsen, T. (1999) Stoichiometric and Kinetic Model Parameters for Microbial Transformations of Suspended Solids in Combined Sewer Systems. *Water Res. (G.B.)*. **33**, 14, 3127.
- Vollertsen, J.; Almeida, M.D.C.; and Hvitved-Jacobsen, T. (1999a) Effects of Temperature and Dissolved Oxygen on Hydrolysis of Sewer Solids. *Water Res. (G.B.)*. **33**, 14, 3119.
- Vollertsen, J.; Hvitved-Jacobsen, T.; McGregor, I.; and Ashley, R. (1999b) Aerobic Microbial Transformations of Pipe and Silt Trap Sediments from Combined Sewers. *Water Sci. Technol. (G.B.)*. **39**, 2, 233.

- Vose, J.M.; Swank, W.T.; Clinton, B.D.; Knoepp, J.D.; and Swift, L.W. (1999) Using Stand Replacement Fires to Restore Southern Appalachian Pine-Hardwood Ecosystems: Effects on Mass, Carbon, and Nutrient Pools. *For. Ecol. Manage.* **114**, 2-3, 215
- WEF (1999) *Proceedings of Water Environ. Fed. 72nd Annual Conference and Exposition*, [CD-ROM], October 9 – 13, 1999, New Orleans, LA. Water Environment Federation, Alexandria, VA.
- Wada, Y., and Miura, H. (1999) Combined Sewer Overflow Control Using Large-Scale Storage Pipe for Flood Control. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1663.
- Wada, Y.; Muraoka, O.; and Miura, H. (1999) Non-point Pollution Control by Means of Storm Water Storage Tank for Flood Control in Urban Area. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1656.
- Wagenet, L.P.; Pfeffer, M.J.; Sutphin, H.D.; and Stycos, J.M. (1999) Adult Education and Watershed Knowledge in Upstate New York. *J. Am. Water Resour. Assoc.* **35**, 3, 609
- Wahlstrom, E.; Loague, K.; and Kyriakidis, P.C. (1999) Hydrologic Response: Kaho'olawe, Hawaii. *J. Environ. Qual.* **28**, 2, 481
- Wainwright, J.; Parsons, A.J.; and Abrahams, A.D. (1999) Field and Computer Simulation Experiments on the Formation of Desert Pavement. *Earth Surface Process Landforms*. **24**, 11, 1025
- Wakeham, J.C. (1999) Using Surveys, Monitoring and Environmental Data Collection to Understand the Impact of Continuous and Intermittent Bacterial Loads on Coastal Bathing Waters in the North West of England. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Walch, M.P.; Brant, W.M.; and Christ, T.J. (1999) Combining New Technologies with Computer Modeling to Prevent Sanitary Sewer Overflows Resulting from Urban Rainfall Induced Peak Flow Conditions -The Miami-Dade Water and Sewer Department Experience. *ASCE 26th Annu. Conf. Water Resour. Plann. Manage. 1999 Annu. Conf. Environ. Eng.*, Tempe, AZ.
- Walesh, S.; Esposito, C.; and Carr, R. (1999) Street Surface Storage for CSO Control. *ASCE 26th Annu. Conf. Water Resour. Plann Manage. 1999 Annu. Conf. Environ. Eng.*, Tempe, AZ.
- Walker, F.R., and Stedinger, J.R. (1999) Fate and Transport Model of *Cryptosporidium*. *J. Environ. Eng.-ASCE*. **125**, 4, 325.
- Walker, W.J.; McNutt, R.P.; and Maslanka, C.A.K. (1999) Potential Contribution of Urban Runoff to Surface Sediments of the

Passaic River: Sources and Chemical Characteristics. *Chemosphere*. **38**, 2, 363.

- Walther, H., and Rohlfing, R. (1999) Optimized Design and Operation of Storage and Treatment Capacities for Simultaneous Reconstruction of Drainage Networks and Treatment Plant Taking Into Account Real-Time Control. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 426.
- Wang, O.J. (1999) Using Genetic Algorithms to Solve Inverse Problems. *International Journal of Modelling and Simulation*. **19**, 4, 323.
- Wang, P.F.; Martin, J.; and Morrison, G. (1999) Water Quality and Eutrophication in Tampa Bay, Florida. *Estuarine Coastal & Shelf Science*. **49**, 1, 1
- Wang, Z., and Fernandez, I. (1999) Soil Type and Forest Vegetation Influences on Forest Floor Nitrogen Dynamics at the Bear Brook Watershed in Maine (BBWM). *Environ. Monit. Assess.* **55**, 1, 221
- Wardlaw, R., and Sharif, M. (1999) Evaluation of Genetic Algorithms for Optimal Reservoir System Operation. *J. Water Resour. Plann. Manage.- ASCE*. **125**, 1, 25
- Warnaars, E.; Larsen, A.V.; Jacobsen, P.; and Mikkelsen, P.S. (1999) Hydrologic Behaviour of Stormwater Infiltration Trenches in a Central Urban Area During 2(3)/(4) Years of Operation, *Water Sci. Technol.* (G.B.), **39**, 2, 217.
- Waschbusch, R.J. (1999) *Evaluation of the Effectiveness of an Urban Stormwater Treatment Unit in Madison, Wisconsin*, 1996-97. U.S. Geological Survey Open-File Report 99-4195. Middleton, WI.
- Waschbusch, R.J.; Selbig, W.R.; and Bannerman, R.T. (1999) *Sources of Phosphorus in Stormwater and Street Dirt from Two Urban Residential Basins in Madison, Wisconsin, 1994-95*. U.S. Geological Survey Water-Resources Investigations Report 99-4021. Middleton, WI.
- Watanabe, M.; Kobayashi, Y.; Fujisawa, T.; and Hokazono, R. (1999) A Practical Runoff Model of Water Quality and Storm Water with Flow Regulations in Combined Sewer Pipe System. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1583.
- Watanabe, M.; Okada, M.; Taniguchi, F.; Fujisawa, T.; and Hokazono, R. (1999) A Lumping Method of Manholes for Surcharged Flow in Urban Sewer Pipe Systems. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality,

- Water-Engineering & Management. (1999) Erosion Control System Protects Against The Elements. *Water-Eng. Manage.* **146**, 2, 12.
- Watts, R.; Callander, P.; and Oliver, T. (1999) Stormwater Disposal Via Ground Soakage, Sustainability Managing Christchurch's Waterways and Wetlands. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1481.
- Watts, R.H., and Greenaway, R.J. (1999) A Values-Based Approach to Sustainability Managing Christchurch's Waterways and Wetlands. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 332.
- Wauchope, R.D.; Sumner, H.R.; Truman, C.C.; Johnson, A.W.; Dowler, C.C.; Hook, J.E.; Gascho, G.J.; Davis, J.G.; and Chandler, L.D. (1999) Run off from a Cornfield as Affected by Tillage and Corn Canopy: A Large-Scale Simulated-Rainfall Hydrologic Data Set for Model Testing. *Water Resour. Res.* **35**, 9, 2881
- Weib, G., and Brombach, H. (1999) Hydraulics of Storm Overflow Devices. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 26.
- Weiler, M.; Scherrer, S.; Naef, F.; and Burlando, P. (1999) Hydrograph Separation of Runoff Components Based on Measuring Hydraulic State Variables, Tracer Experiments, and Weighting Methods. *IAHS Publication (Int. Assoc. of Hydrol. Sci.)*. 258: 249.
- Welker, A.; Leinweber, U.; Klepizewski, K.; and Schmitt, T.G. (1999) Effects of Integrated Stormwater Management Strategies on the Combined Sewer System and the Wastewater Treatment Plant-river System. *Water Sci. Technol.* (G.B.), **39**, 2, 151.
- Wenning, R.J.; Mathur, D.B.; Paustenbach, D.J.; Stephenson, M.J.; Folwarkow, S.; and Luksemburg, W.J. (1999) Polychlorinated Dibenzo-p-dioxins and Dibenzofurans in Storm Water Outfalls Adjacent to Urban Areas and Petroleum Refineries in San Francisco Bay, California. *Arch. Environ. Contam. Toxicol.* **37**, 3, 290.
- Westoll, T.G. (1999) Driffield Sewerage and Sewage-Treatment Projects. *Journal of the Chartered Institution of Water and Environment Management*. **13**, 2, 121.
- White, A.F.; Blum, A.E.; Bullen, T.D.; Vivit, D.V.; Schulz, M.; and Fitzpatrick, J. (1999) The Effect of Temperature on

- Experimental and Natural Chemical Weathering Rates of Granitoid Rocks. *Geochimica et Cosmochimica Acta*. **63**, 19-20, 3277
- White, A.F.; Bullen, T.D.; Vivit, D.V.; Schulz, M.S.; and Clow, D.W. (1999) The Role of Disseminated Calcite in the Chemical Weathering of Granitoid Rocks. *Geochimica et Cosmochimica Acta*. **63**, 13-14
- White, K.D. (1999) The Use of Stormwater Treatment Wetlands for Non-Point Source Management. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], Orleans, LA.
- Whiting, P.J.; Samm, J.F.; Moog, D.B. and Orndorff, R.L. (1999) Sediment-Transporting Flows in Headwater Streams. *Geol. Soc. Am., Bull.* **111**, 3, 450.
- Wiese, J., and Scmitt, T.G. (1999) An Evaluation of the Pollutant Discharge of an Entire River Catchment Area Caused by Stormwater Runoff. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 13 35.
- Wikner, J.; Cuadros, R.; and Jansson, M. (1999) Differences in Consumption of Allochthonous DOC Under Limnic and Estuarine Conditions in a Watershed. *Aquat. Microbial Ecol.* **17**, 3, 289
- Wilby, R.L.; Hay, L.E.; and Leavesley, G.H. (1999) A Comparison of Downscaled and Raw GCM Output: Implications for Climate Change Scenarios in the San Juan River Basin, Colorado. *J. Hydrol. (Neth.)* . **225**, 1-2, 67
- Wilkinson, A.G. (1999) Poplars and Willows for Soil Erosion Control in New Zealand. *Biomass & Bioenergy*. **16**, 4, 263
- Wilkinson, A.N.; Hall, R.I.; and Smol, J.P. (1999) Chrysophyte Cysts as Paleolimnological Indicators of Environmental Change due to Cottage Development and Acidic Deposition in the Muskoka-Haliburton Region, Ontario, Canada [Review]. *J. of Paleolimnology*. **22**, 1, 17
- Willems, P. (1999) Stochastic Generation of Spatial Rainfall for Urban Drainage Areas. *Water Sci. and Tech.* **39**, 9, 23.
- Willems, P.; Vaes, G.; and Berlamont, J. (1999) Compound IDF-Relationships and Design Storms for Two Seasons and Two storm Types. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 89 7.
- Williams, A.T., and Simmons, S.L. (1999) Sources of Riverine Litter: The River Taff, South Wales, UK. *Water, Air, & Soil Pollution*, **112**, 1-2, 197.
- Williams, D. (1999) Sustainable Urban and Regional Design: the South Dade Watershed Project. *Proc. AWRA's 1999 Annual Water Resources Conference - Watershed Management to Protect Declining Species*, December 1999, Seattle, WA.

- Williams, K.S., and Tarboton, D.G. (1999) The ABC's of Snowmelt: a Topographically Factorized Energy Component Snowmelt Model. *Hydrol. Processes*. **13**, 12-13, 1905.
- Williams, R.; French, D.; and Huiting, J. (1999) A Partnership for the Future: The Louisville and Jefferson County Initiatives for I/I Identification. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Winoogradoff, D.A., and Coffman, L.S. (1999) Bioretention: Water Quality Performance Data and Design Modifications. *ASCE 26th Annu Conf. Water Resour. Plann. Manage. 1999 Annu. Conf. Environ. Eng.*, Tempe, AZ.
- Winther, J.G.; Gerland, S.; Orbaek, J.B.; Ivanov, B.; Blanco, A.; and Boike, J. (1999) Spectral Reflectance of Melting Snow in a High Arctic Watershed on Svalbard: Some Implications For Optical Satellite Remote Sensing Studies. *Hydrological Processes*. **13**, 12-13, 2033
- Wittayapak, C., and Dearden, P. (1999) Decision-Making Arrangements in Community-Based Watershed Management in Northern Thailand. *Soc. Natl. Resour.* **12**, 7, 673
- Wittenberg, H., and Sivapalan, M. (1999) Watershed Groundwater Balance Estimation Using Streamflow Recession Analysis and Baseflow Separation. *J. Hydrol. (Neth.)*, **219**, 1-2, 20.
- Wong, P.; Hwang, G.; Giguere, P.; and Baldwin, A. (1999a) Monitoring and Modeling to Optimize System Planning and Operation in San Diego. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Wong, T.F.; Breen, P.F.; and Somes, N.L.G. (1999b) Ponds vs. Wetlands - Performance Considerations in Stormwater Quality Management, *Comprehensive Stormwater & Aquatic Ecosystem Manage. Conf. Papers First South Pacific Conf.*, Auckland, New Zealand.
- Wong, T.H.F.; Rodder, A.; Geiger, W.F. (1999c) Predicting the Performance of a Constructed Combined Sewer Overflow Wetland. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1997.
- Wong, T.S.W., and Kho, K.Q.H. (1999) Effect of Urbanization Sequence on Pattern of Flood Peak Increase. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1994.
- Wong, T.S.W., and Li, Y. (1999) Theoretical Assessment of Changes in Design Flood Peak of an Overland Plane for Two Opposing Urbanization Sequences. *Hydrol. Processes*. **13**, 11, 1629.

- Wong, W.S., and Nik-Hassan, N.M.K. (1999) Urban Pumping Drainage System Design and Operation – A Case Study. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1808.
- Wood, B.H.; Wood, C.W.; Yoo, K.H.; Yoon, K.S.; and Delaney, D.P. (1999) Seasonal Surface Runoff Losses of Nutrients and Metals From Soils Fertilized with Broiler Litter and Commercial Fertilizer. *J. Environ. Qual.*, **28**, 4, 1210.
- Wood, T.S., and Shelley, M.L. (1999) A Dynamic Model of Bioavailability of Metals in Constructed Wetland Sediments. *Ecol. Eng.*, **12**, 3-4, 231.
- Woods, R., and Sivapalan, M. (1999) A Synthesis of Space-Time Variability in Storm Response: Rainfall, Runoff Generation, and Routing. *Water Resour. Res.*, **35**, 8, 2469.
- Worley, S., and Ratliff, G. (1999) Reinvention of Local Pretreatment Program to Achieve Improved Watershed Health Utilizing Project XL. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Worm, J.A.; Rauch, W.; Harremoes, P.; and Linde, J.J. (1999) Model Based Control for Load Equalisation in Sewer Systems. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1254.
- Wright, R.D., and Garfield, N. (1999) The Tijuana River Watershed: an NSDI National Community Demonstration Site. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Wujcik, C.E.; Cahill, T.M.; and Seiber, J.N. (1999) Determination of Trifluoroacetic Acid in 1996-1997 Precipitation and Surface Waters in California and Nevada. *Environ. Sci. Technol.*, **33**, 10, 1747.
- Xu, S.; Higashijima, R.; Shingu, T.; Amakata, M.; and Sakai, T. (1999) Improvement Plan of Y River Going Through Downtown of F City. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 218.
- Xue, Y.; Kovacic, D.A.; David, M.B.; Gentry, L.E.; Mulvaney, R.L.; and Lindau, C.W. (1999) In Situ Measurements of Denitrification in Constructed Wetlands. *J. Environ. Qual.*, **28**, 1, 263.
- Yagi, S., and Shiba, S. (1999) Application of Genetic Algorithms and Fuzzy Control to a Combined Sewer Pumping Station. *Water Sci. and Tech.*, **39**, 9, 217.
- Yamazaki, Y.; Horikawa, H.; Kuroda, H.; and Zhu, C.M. (1999) Anti-inundation Measures in Small Area with a Combined Sewer System. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999,

- Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 68 1.
- Yan, W.J.; Yin, C.Q.; and Zhang, S. (1999) Nutrient Budgets and Biogeochemistry in an Experimental Agricultural Watershed in Southeastern China. *Biogeochemistry*. **45**, 1, 1
- Yavtushenko, V.E.; Tsurikov, L.N.; and Shmyreva, N.Y. (1999) Budget and Transformation of Fertilizer Nitrogen in the Eroded Soddy-podzolic Soil of the Central Nonchernozem Zone. *Eurasian Soil Sci.*, **32**, 11, 1221
- Yen, B.C.; Pagliara, S.; and Bottazzi, E. (1999) A Practical Effective Urban Catchment Runoff Simulation Model. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1880.
- Yitayew, M.; Pokrzywka, S.J.; and Renard, K.G. (1999) Using GIS for Facilitating Erosion Estimation. *Appl. Eng. Agric.* **15**, 4, 295
- Yoloye, O.; Girma, E.; and McCormick, E. (1999) Three Neighborhoods, Three Solutions – The Collaborative Way to Build Projects. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Yonder, C.O.; Miltner, R.J.; and White, D. (1999) Assessing the Status of Aquatic Life Designated Uses in Urban and Suburban Watersheds. *Proc. National Conf. on Retrofit Opport. for Water Rec. Protect. in Urban Environ.*, Chicago, IL, EPA/625/C-99/001, U.S. EPA, Washington, D.C., 16.
- Yonder, C.O.; Miltner, R.J.; and White, D. (1999) Assessing the Status of Aquatic Life Designated Uses in Urban and Suburban Watersheds. *Proc. National Conf. on Retrofit Opport. for Water Rec. Protect. in Urban Environ.*, Chicago, Illinois, 16, EPA/625/C-99/001.
- Young, F.J.; Hammer, R.D.; and Larsen, D. (1999) Frequency Distributions of Soil Properties on a Loess-Mantled Missouri Watershed. *Soil Sci. Soc. Am. J.* **63**, 1, 178
- Young, G., and Collier, G. (1999) Research-based Stormwater Education at the NSW Environment Protection Authority. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 2031.
- Young, K.D., and Thackston, E.L. (1999) Housing Density and Bacterial Loading in Urban Streams. *J. Environ. Eng.* **125**, 12, 1177.
- Yu, B. (1999) A Comparison of the Green-Ampt and a Spatially Variable Infiltration Model for Natural Storm Events. *Trans. ASAE*. **42**, 1, 89.

- Yu, S.L.; Zhang, X.; Earles, A.; and Sievers, M. (1999) Field Testing of Ultra-Urban BMP's. *ASCE 26th Annu. Conf. Water Resour. Plann. Manage. 1999 Annu. Conf. Environ. Eng., Tempe, AZ.*
- Yu, Z.; Lakhtakia, M.N.; Yarnal, B.; White, R.A.; Miller, D.A.; Frakes, B.; Barron, E.J.; Duffy, C.; and Schwartz, F.W. (1999) Simulating the River-Basin Response to Atmospheric Forcing by Linking a Mesoscale Meteorological Model and Hydrologic Model System. *J. Hydrol. (Neth.)* . **218**, 1-2, 72
- Yu, Z.B., and Schwartz, F.W. (1999) Automated Calibration Applied to Watershed-Scale Flow Simulations. *Hydrol. Processes*. **13**, 2, 191.
- Yue, S., and Hashino, M. (1999) A Stochastic Model for Deriving the Basic Statistics of J-day Averaged Streamflow. *Water Resour. Res.* . **35**, 10, 3127-3137
- Yulianti, J.S., and Lence, B.J. (1999) Parameter Uncertainty in Rainfall-runoff Modeling for Polder System Design. *J. Am. Water Resour. Assoc.*, **35**, 2, 245.
- Yulianti, J.S.; Lence, B.J.; Johnson, G.V.; and Takyi, A.K. (1999) Non-point Source Water Quality Management Under Input Information Uncertainty. *J. Environ. Manage.*. **55**, 3, 199
- Yung, Y.K.; Yau, K.; Wong, C.K.; Chan, K.K.; Yeung, I.; Kueh, C.S.W.; and Broom, M.J. (1999) Some Observations on the Changes of Physico-Chemical and Biological Factors in Victoria Harbour and Vicinity, Hong Kong, 1988-1996. *Mar. Pollut. Bull.*. **39**, 1-2, 315.
- Yura, T.; Takahashi, Y.; Suzuki, K.; and Jinbo, H. (1999) Plan to Introduce Storm Water Infiltration Facility and Sustainable Maintenance System With Accompanying Large Scale Housing Site. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 990.
- Yurtsever, Y. (1999) Use of Environmental Tritium to Study Catchment Dynamics: Case Study from the Danube River Basin. *IAHS Publication (Int. Assoc. of Hydrol. Sci.)*. 258: 167
- Zaizen, M.; Urakawa, T.; Matsumoto, Y.; and Takai, H. (1999) The Inspection of Rainwater Utilization at Dome Stadiums in Japan. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1358.
- Zalidis, G.C., and Gerakis, A. (1999) Evaluating Sustainability of Watershed Resources Management Through Wetland Functional Analysis. *Environ. Manage.*. **24**, 2, 193
- Zaman, S. (1999) Assessment of Stormwater Quality and Pollution Pathways Identification in Urbanised Catchments. *Proc. the*

- Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1744.
- Zealand, C.M.; Burn, D.H.; and Simonovic, S.P. (1999) Short Term Streamflow Forecasting Using Artificial Neural Networks. *J. Hydrol. (Neth.)* . **214**, 1-4, 32
- Zech, Y., and Escarmelle, A. (1999) Use of High-resolution Geographical Databases for Rainfall-runoff Relation in Urbanized Areas. *Water Sci. Technol.* (G.B.), **39**, 9, 87.
- Zettler, D.; Bhullar, T.; and Kiel, P. (1999) More Than Pretty Pictures: GIS-Based Information Management Tools Support Both CSO Planning and Preliminary Design Efforts. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Zhang, S.P.; Sakai, A.; and Sumiyama, M. (1999) Evaluation of the Non-Point Source Runoff Control Methods for Separate Sewer Systems. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1342.
- Zhao, J.Q.; Yu, Y.; and Yuan, W.N. (1999) Water Quality of Storm Runoff from an Urban Highway. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1570.
- Zheng, G.J., and Richardson, B.J. (1999) Petroleum Hydrocarbons and Polycyclic Aromatic Hydrocarbons (PAHs) in Hong Kong Marine Sediments. *Chemosphere*. **38**, 11, 2625.
- Zheng, P.Q., and Baetz, B.W. (1999) GIS-Based Analysis of Development Options from a Hydrology Perspective. *J. Urban Plann. Dev.*. **125**, 4, 164.
- Zhu, A.X. (1999) Fuzzy Inference of Soil Patterns: Implications for Watershed Modeling. *Assessment of Non-Point Source Pollution in the Vadose Zone*. 135-149, Book Editors: Corwin DL. Loague K. Ellsworth TR., *Amer Geophysical Union*, Geophysical Monograph:108.
- Zhu, W., and Ehrenfeld, J.G. (1999) Nitrogen Mineralization and Nitrification in Suburban and Undeveloped Atlantic White Cedar Wetlands. *J. Environ. Qual.*, **28**, 523.
- Zimmer, U.; Geiger, W.F.; and Caeserlein, G. (1999) Safety Factors for the Design of Infiltration Facilities. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB

- Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 256.
- Zisette, R.; Trial, W.T.; and Samadpour, M. (1999) The Use of Microbial Source Tracking to Identify Fecal Contamination in the Drayton Harbor Watershed. *Proc. AWRA's 1999 Annual Water Resources Conference - Watershed Management to Protect Declining Species*, December 1999, Seattle, WA. American Water Resources Association, 445.
- Zitomer, D.; Ferguson, N.; McGrady, K.; and Schilling, J. (1999) Anaerobic Co-digestion of Aircraft Deicing Runoff and Municipal Wastewater Sludge. *Proc. Water Environ. Fed. 72nd Annu. Conf. Exposition*, [CD-ROM], New Orleans, LA.
- Zobrist, C.; Cencie, N.; and Demortier, G. (1999) Methodological Study of CSO's Impact: Application to the River Orne. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 403.
- Zug, M.; Magne, G.; Hammouda, A.; and De Belly, B. (1999a) Use of Modeling to Study the Impact of the Management of the Detention Basin of Gentilly on the Sewage System. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 713.
- Zug, M.; Bellefleur, D.; Phan, L.; and Scrivener, O. (1999b) HORUS: A Conceptual Model of Pollution Simulation in Sewer Networks. *Water Sci. Technol.* (G.B.), **39**, 9, 31.
- Zug, M.; Rossi, L.; Phan, L.; and Magne, G. (1999c) Transposition of the HORUS Conceptual Model of Pollution on French, Swiss and UK Catchments, *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 88.
- Zug, M.; Magne, G.; Tabuchi, J.P.; and Tisserand, B. (1999d) Development of a Methodology for the Definition of the Exceptional Event Regarding to the Sewerage System. *Proc. the Eighth International Conference on Urban Storm Drainage*. August 30 – September 3, 1999, Sydney, Australia. Edited by IB Joliffe and JE Ball. The Institution of Engineers Australia, The International Association for Hydraulic Research, and The International Association on Water Quality, 1639.